Appendix
Statistics from
Fisheries of the United States, 1980

Compiled and furnished through the courtesy of
Resource Statistics Division,
National Marine Fisheries Service,
National Oceanic and Atmospheric Administration,
U.S. Department of Commerce

Complete copies of Fisheries of the United States, 1980
may be ordered from:
Resource Statistics Division (F/SRI)
National Marine Fisheries Service, NOAA
Washington, D.C. 20235

REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 States were a record 6.5 billion pounds valued at $2.2 billion in 1980, up 3 percent in quantity but about equal in value compared with 1979, the previous record year. Increased landings of salmon, tuna, rockfishes, Atlantic cod, Pacific herring, and crabs offset declines in other major species such as menhaden and anchovies. Prices in 1980 of most edible fish and shellfish declined. The annual average exvessel price index shows a decline of 10 percent in 1980 compared with 1979.

For the third consecutive year the U.S. has established new record landings. The percent of the total U.S. supply of commerical fishery products produced by the U.S. domestic fishery has increased the last 4 years. In 1980 domestic production of total supply was 57.1 percent and imports 42.9 percent. In 1976 the U.S. production accounted for 46.5 percent of total supply.

Commercial landings by U.S. fishermen at ports outside the 50 States and transferred in the U.S. fishery conservation zone (FCZ) onto foreign vessels (joint ventures) were an additional 255.4 million pounds valued at $102.2 million. Most of these consisted of tuna landed at canneries in Puerto Rico and groundfish transferred to foreign vessels.

Edible fish and shellfish landings in the 50 States were a record 3.7 billion pounds in 1980, up 10 percent compared with 1979. Landings of most major species, particularly salmon, increased.

Landings for reduction and other industrial purposes by U.S. fishermen in the 50 States were 2.8 billion pounds in 1980, 4 percent less than 1979. The decrease is attributed to smaller catches of menhaden, the dominant industrial fish, and anchovies.

FOREIGN CATCH IN U.S. FCZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. fishery conservation zone (FCZ) was 1,631,000 metric tons (3.6 billion pounds) in 1980, 1 percent below 1979, and 22 percent below the average for the 5 preceding years. As in other years, the FCZ off Alaska supplied by far the largest share of the foreign catch, 93 percent; Washington, Oregon, and California, 3 percent; North Atlantic, 4 percent; and Hawaii and the Pacific islands, less than one tenth of 1 percent.

Alaska pollock comprised 69 percent of the foreign catch; Pacific flounders, 11 percent; hake (Pacific whiting), 3 percent; and other fish and shellfish, the remainder.

Japan continued as the leading nation fishing in the U.S. FCZ with a catch of 1.2 million metric tons in 1980. Catches by vessels of the Republic of Korea, Korea, the second most important catching nation, were 210,000 metric tons, 65 percent above 1979.

U.S. VS. FOREIGN CATCH IN U.S. FCZ. The combined catch by U.S. and foreign vessels in the area 3 to 200 nautical miles from U.S. shores, known as the FCZ, was 2.6 million metric tons in 1980, up 3 percent compared with 1979. The rise in the U.S. catch more than offset a decline in the foreign catch, and the U.S. share rose to 36 petcent of the total, up from 33 percent in 1979.

AQUACULTURE. Commercial production of selected fish and shellfish through aquaculture techniques is developing in the United States. Current production of marine, brackish, and freshwater species is 148.9 million pounds, of which 84 percent is comprised of freshwater species. Total value of these selected species was $113.6 million in 1980.

MARINE RECREATIONAL CATCH. The data shown in the publication are for the Atlantic Coast and Gulf of Mexico Coast for 1979 and are part of a recently initiated survey of marine recreational fisheries in the United States. Survey results for other areas were not available in time to be included in the publication, but will be published in the next few months. Fisheries of the United States, 1981 will contain data on the total U.S. marine recreational catch.

WORLD LANDINGS. In 1979, the most recent year for which data are available, world commercial fishery landings were a record 71.3 million metric tons, 1 percent more than the revised 1978 total of 70.5 million metric tons. Japan was the leading nation with 14 percent of the total; the USSR, second with 13 percent; China, third with 6 percent; Peru, fourth with 5 percent; and the United States, fifth with 5 percent.

PRICES. During 1980, the Index of Exvessel Prices for Fish and Shellfish declined to 399.9. The index (1967=100) for edible fish was 406.1, down 11 percent from 1979. Among the exceptions to this downward trend were the exvessel prices for ocean perch, red snapper, tuna, whiting, and soft clams, American lobster, Eastern oysters, and sea scallops, all of which increased. The index for industrial fish was 315.6 for 1980, up 3 percent compared with 1979.

PROCESSED PRODUCTS. The 1980 value of domestic production of edible and nonedible processed fishery products was $4.7 billion, 5 percent above 1979. The value of edible products increased to $4.3 billion, 6 percent above 1979. All categories of edible products increased in value. The value of industrial products of $395 million in 1980 was $17.3 million less than 1979.

REVIEW

FOREIGN TRADE. U.S. imports of edible fishery products were 2.1 billion pounds (product weight) valued at a record $2.7 billion in 1980, down 10 percent in quantity, but up 1 percent in value. U.S. imports of nonedible (industrial) products were $966.0 million in 1980, down 16 percent compared with 1979.

The United States exported a record 573.9 million pounds valued at $904.4 million of edible fishery products in 1980, up 4 percent in quantity but down 11 percent in value from 1979. Exports in 1980 of nonedible products were $101.8 million, 64 percent above 1979.

SUPPLY. THE U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 8.0 billion pounds in 1980, 3 percent less than 1979. The decrease was caused by lower imports of edible fishery products. The supply of industrial fishery products was 3.4 billion pounds in 1980, 6 percent less than 1979. A decrease in domestic landings of industrial products and less imports contributed to this decline.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 13.0 pounds of edible meat per person in 1980, down 0.2 pound from 1979.

REVIEW

RECORDS ESTABLISHED

U.S. COMMERCIAL LANDINGS

Volume and value of U.S. commercial landings -- 6.5 billion pounds and $2,237.2 million.... (previous high, 1979 -- 6.3 billion pounds, and $2,233.7 million).

Cod -- $38.0 million....(previous high, 1979 -- $31.3 million).

Flounders -- 216.9 million pounds....(previous high, 1979 -- 209.3 million pounds).

Menhaden -- $112.0 million....(previous high, 1979 -- $109.4 million).

Rockfishes -- 105.7 million pounds....(previous high, 1979 -- 68.0 million pounds).

Tuna -- $233.1 million....(previous high, 1978 -- $176.9 million).

Crabs -- 523.1 million pounds....(previous high, 1979 -- 489.2 million pounds).

Crab, king -- 185.6 million pounds and $168.7 million....(previous high, 159.2 million pounds, 1965 and 168.1 million, 1978).

U.S. PRODUCTION OF PROCESSED FISHERY PRODUCTS

Value of processed fishery products -- $4.7 billion -- (previous high, $4.5 billion, 1979).

Fish oil -- 311.6 million pounds....(previous high, 1936 -- 299.3 million pounds).

U.S. IMPORTS

Edible fishery products -- $2,682.3 million....(previous high, 1979 -- $2,668.4 million).

U.S. EXPORTS

Edible fishery products -- 573.9 million pounds....(previous high, 1979 -- 553.6 million pounds).

U.S. SUPPLY (DOMESTIC PRODUCTION PLUS IMPORTS)

American lobsters -- 69.2 million pounds....(previous high, 1979 -- 68.3 million pounds).

OTHER IMPORTANT FACTS

Menhaden landings in 1980 of 2,497 million pounds (1,132 thousand metric tons) made up 38 percent of the commercial fishery landings in the United States.

Salmon was the second most important species in both quantity and value.

Crabs were the third most important in both quantity and value.

Tuna was the fourth most important in both quantity and value.

Shrimp was the fifth most important in quantity, but first in value.

Tuna landings by U.S. craft at ports outside the United States amounted to 100.6 million pounds, mostly landed at Puerto Rican ports. Other species landed at ports outside the United States were shrimp, at Central and South American ports and Pacific groundfish onto foreign vessels in the U.S. FCZ.

Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings. The second was San Pedro, California, followed by Pascagoula-Moss Point, Mississippi; Empire-Venice, Louisiana; and Dulac-Chauvin, Louisiana. Menhaden was the principal species landed at these ports, except at San Pedro, where tuna was the principal species.

San Pedro, California was the leading U.S. port in terms of value, followed by San Diego, California; Dutch Harbor, and Kodiak, Alaska; and New Bedford, Massachusetts.

Louisiana led all States in volume of landings with 1,423.4 million pounds, followed by Alaska with 1,053.9 million pounds; California with 804.3 million pounds; Virginia with 637.5 million pounds; and Massachusetts with 438.4 million pounds.

Alaska led all States in value with $560.6 million, followed by California with $323.4 million; Massachusetts with $178.6 million; and Texas with $153.9 million.

REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Alaska pollock, Pacific cod, flounders, hake (Pacific whiting), ocean perch, and rockfishes) were 207.7 million pounds valued at $42.2 million, up 8 percent in volume and 9 percent in value compared with 1979. Decreases in landings of flounders (12 percent), ocean perch (7 percent), Alaska pollock (45 percent), and hake (61 percent) were offset primarily by a 55 percent increase in rockfishes but also a 59 percent increase in Pacific cod. An additional catch of 137.7 million pounds of Pacific trawl fish valued at $8.4 million was caught by U.S. fishermen and unloaded to foreign vessels in the U.S. FCZ. Efforts to increase the use of Pacific groundfish by U.S. processors was slightly affected this year with the failure of one firm in Alaska handling these fish and another Alaska firm shutting down its groundfish processing lines. However, the introduction of a large U.S. factory trawler and an experimental floating processor in the Bering Sea partially offset these events.

The foreign catch of trawl fish in the Pacific U.S. FCZ was 1.6 million metric tons, a decline of 2 percent compared to 1979. About 84 percent of this catch was in the Eastern Bering Sea, 13 percent in the Gulf of Alaska, and the remaining 3 percent off Washington, Oregon, and California. Alaska pollock was the leading species caught (1.1 million metric tons), followed by Pacific flounders (181,800 metric tons), and Pacific cod (71,600 metric tons). Japan and South Korea were the major fishing nations.

ANCHOVIES. U.S. landings of anchovies in 1980 were 106.9 million pounds, a decline of 10.5 million pounds (9 percent) compared with 1979. In 1980, 103.7 million pounds were used for industrial purposes, with 88.9 million pounds or 86 percent of the anchovies reduced to meal, oil, and solubles. Another 13.8 million pounds or 13 percent was used for bait, mostly live bait for sport fishing. The remaining 982,000 pounds was used for pet food. Most of the anchovies were caught in purse seines, although some were taken with lampara nets.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 19.2 million pounds (round weight) valued at $16.8 million, down 2.2 million pounds and $17.8 million compared with 1979. The Pacific fishery accounted for 99 percent of the 1980 total. The average exvessel price per pound in 1980 was 88 cents compared with $1.62 in 1979.

HERRING, SEA. U.S. commercial landings of sea herring were 291.1 million pounds valued at $45.0 million in 1980, up 39 percent in volume and down 4 percent in value compared with 1979. Landings of Atlantic sea herring were 184.0 million pounds valued at $10.4 million, up 28 percent in quantity and 23 percent in value from 1979. Landings of Pacific sea herring were 107.1 million pounds valued at $34.6 million, an increase of 41.4 million pounds (63 percent) and a decrease of $3.8 million (10 percent) in value. The average exvessel price per pound of Pacific sea herring decreased from 58 cents in 1979 to 32 cents in 1980.

JACK AND PACIFIC MACKEREL. Landings in California were 109.1 million pounds valued at $9.8 million, up 16 percent in quantity and 46 percent in value from 1979. Jack mackerel comprised 41 percent and Pacific mackerel 59 percent of the total. This is the second year in a row that the catch of Pacific mackerel exceeded that of jack mackerel.

Prior to 1978, the State of California prohibited the landings of a pure trip of Pacific mackerel, and the incidental take was limited to 18 percent for a trip. The reason for more Pacific mackerel landings in 1979 and 1980 was simply an increase in near-shore abundance and the removal of the State of California regulations.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel in 1980 were 5.9 million pounds with an exvessel value of $816,000--1.4 million pounds more than in 1979 but a decline of $243,000 in value. Massachusetts was the leading State with landings of 2.6 million pounds (43 percent), followed by New Jersey with 1.6 million pounds (27 percent). The average exvessel price per pound in 1980 was 14 cents compared with 24 cents in 1979.

MENHADEN. U.S. menhaden landings were 2.5 billion pounds valued at $112.0 million in 1980, down 107.8 million pounds or 4 percent in quantity but an increase of $2.6 million or 2 percent in value compared with 1979. Landings in the Atlantic States increased by 7 percent while the Gulf States declined again in 1980 by 10 percent. Over 99 percent of the total landings were reduced to meal, oil, and solubles; the rest was used for bait or for canned pet food.

Landings along the Atlantic Coast were 948.9 million pounds worth $42.9 million in 1980, an increase of 7 percent in quantity and 19 percent in value compared with 1979. Of this amount, 906.5 million pounds were used for reduction in 1980, the remainder for bait.

Landings of Gulf menhaden were 1.6 billion pounds compared with the 1979 landings of 1.7 billion pounds and 14 percent less than the record year 1978 when 1.8 billion pounds were landed. Gulf Coast landings in June and July were the highest during the year when 280.7 and 349.7 million pounds were landed.

NORTH ATLANTIC TRAWL FISH. North Atlantic groundfish landings in 1980 were 460.0 million pounds (208,660 metric tons) valued at $145.6 million, in 1980 valued at $145.6 million, up 12 percent in quantity and 7 percent in value compared to the 411.3 million pounds valued at $136.5 million landed in 1979. Fish included are: butterfish, Atlantic cod, cusk, flounders, haddock, red and white hake, Atlantic ocean perch, pollock, and whiting (silver hake). Flounders led in value of these species, accounting for 46 percent of the total, cod second with 22 percent, and haddock third with 15 percent.

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REVIEW

IMPORTANT SPECIES

Atlantic cod and haddock, managed under an FMP since 1977, have shown a marked increase in landings since 1976 when landings were 56.0 million and 12.8 million pounds respectively. In 1980 cod landings were 118.2 million pounds and haddock 55.2 million pounds. Yellowtail flounder have also been managed under an FMP since 1977, but landings have not shown a substantial increase. Yellowtail landings in 1976 were 38.0 million pounds and 42.6 million pounds in 1980.

Foreign catches in the North Atlantic FCZ in 1980 were 71,714 metric tons, a 12 percent increase compared with 64,106 metric tons in 1979. Canada was the leading country with 40 percent, Spain second with 24 percent, Japan third with 15 percent, and Italy fourth with 13 percent. Other countries fishing the area were Cuba, Mexico, Faroe Islands, Poland, and Romania. Squid catches of 38,124 metric tons led all species caught (51 percent). Other species in order of significance were haddock (13 percent), cod (9 percent), pollock (7 percent), and sea scallops (7 percent).

PACIFIC SALMON. U.S. commercial landings were 613.8 million pounds valued at $352.3 million, an increase of 77.7 million pounds or 14 percent and a decrease of $60.5 million or 15 percent compared with 1979. Excellent runs again of pink and red salmon in Alaska were the major factors for the increase. Alaska accounted for 92 percent of the total landings; Washington, 6 percent; and California and Oregon, 1 percent each. A small catch of 2,000 pounds of silver salmon were made in the Great Lakes.

Alaska salmon landings in 1980, the largest since 1941, were 567.1 million pounds, up 99.3 million pounds or 21 percent from 1979. The value of Alaska salmon was $286.6 million, down $18.2 million or 6 percent compared with 1979. Pink salmon landings in Alaska were 253.5 million pounds, the greatest since 1942. Landings of red salmon were 204.4 million pounds, up 13 percent from 1979 and up 114.7 million pounds or 128 percent from 1978. Chum salmon landings were 74.4 million pounds, up 67 percent and silver salmon landings in Alaska were 23.2 million pounds, up 1 percent from 1979. Chinook salmon showed the only decrease in Alaska with 11.6 million pounds, down 21 percent from 1979.

Salmon landings in Washington in 1980 were 33.8 million pounds valued at $39.8 million. Compared with 1979, landings of pink (11,000 pounds) and red (3.1 million pounds) decreased by 21.9 million pounds and 6.8 million pounds respectively. The largest increase was for chum salmon which rose from 1.3 million pounds in 1979 to 10.6 million pounds in 1980. There was a slight increase in chinook landings from 6.3 million pounds in 1979 to 7.6 million pounds in 1980.

Salmon landings in Oregon were 7.0 million pounds valued at $12.7 million, down 3.5 million pounds in quantity and $8.5 million in value compared with 1979. The only increase was for chum salmon which went from 1,000 in 1979 to 2,000 pounds in 1980. Landings of pink salmon went from 127,000 pounds in 1979 to 1,000 pounds in 1980. Silver salmon declined 46 percent (2.7 million pounds) and chinook by 16 percent (696,000 pounds) compared with 1979.

California salmon landings decreased from 8.8 million pounds in 1979 to 5.9 million pounds in 1980. Chinook landings declined from 7.6 million pounds in 1979 to 5.6 million pounds and silver salmon went from 1.2 million pounds in 1979 to 300,000 pounds in 1980. The 1980 value ($13.1 million) for salmon in California decreased by 32 percent compared with 1979.

SABLEFISH. U.S. commercial landings of sablefish were only 22.1 million pounds valued at $5.4 million in 1980. This was a decline of 26.3 million pounds (54 percent) compared with 1979, a record year, and $9.4 million (64 percent) in value. Landings in all Pacific States declined--California, 8.3 million pounds (down 55 percent); Oregon, 5.9 million (64 percent); Washington, 3.1 millions (48 percent); and Alaska, 4.8 million pounds (down 35 percent) compared with 1979. The average exvessel price per pound in 1980 was 24 cents compared with 31 cents in 1979.

TUNA. Landings of tuna in 1980 by U.S. fishermen at ports in the 50 States, Puerto Rico, American Samoa, and other U.S. territories and foreign ports were 500.0 million pounds, valued at $289.3 million, down 2 percent in quantity but up 34 percent in value from 1979. The quantity landed was 10 percent below the average for the previous 5 years. The average exvessel price per pound for all species of tuna for 1980 was 58 cents compared to 42 cents in 1979.

Bigeye landings in 1980 were 7.0 million pounds, up from 2.9 million pounds (140 percent) in 1979. The average exvessel price per pound was 58 cents in 1980 compared to 78 cents in 1979.

Skipjack landings in 1980 were 235.0 million pounds, up 40.2 million pounds (21 percent) from 1979 and still above the average for the past five years. The average exvessel price per pound in 1980 was 54 cents compared to 37 cents in 1979.

Yellowfin landings were 231.6 million pounds in 1980, down 46.4 million pounds (17 percent) from 1979. The average exvessel price in 1980 was 60 cents compared with 44 cents in 1979.

Bluefin landings were 8.1 million pounds in 1980, down 7.9 million pounds (49 percent) from 1979. The average exvessel price per pound was 88 cents in 1980 compared to 58 cents in 1979.

Almost 80 percent of the tuna landings were at ports in the continental United States (principally California, with 96 percent of continental landings).

REVIEW

IMPORTANT SPECIES

NMFS and the U.S. Coast Guard closely regulate fishing for yellowfin tuna by U.S. fishermen in a major producing area of the eastern Pacific Ocean known as the Commission's Yellowfin Regulatory Area (CYRA). The regulation is in response to recommendations of the Inter-American Tropical Tuna Commission (IATTC).

CLAMS. Landings of all species yielded 95.4 million pounds of meats worth $90.2 million in 1980. Compared with 1979, landings increased 3.3 million pounds (4 percent) and $11.0 million (14 percent) in value in 1980. The exvessel price rose from 86 cents in 1979 to 95 cents in 1980.

Surf clams yielded 37.7 million pounds of meats valued at $19.1 million, up 2.8 million pounds or 8 percent, but down in value by $166,000 or 1 percent compared with 1979. Virginia was the leading State with 14.4 million pounds; followed by Maryland, 11.4 million; New Jersey, 9.6 million; and New York, 2.0 million pounds. The average exvessel price per pound for surf clams went down from 55 cents in 1979 to 51 cents in 1980.

The ocean quahog fishery produced 33.8 million pounds of meats valued at $10.2 million in 1980, a decrease of 892,000 pounds or 3 percent and $46,000 compared with 1979. New Jersey was the leading producer in the United States with 22.5 million pounds of meats, accounting for 67 percent of the total landings of ocean quahog. Maryland was second with 7.7 million pounds or 23 percent, followed by Rhode Island, 3.6 million pounds or 10 percent. The average exvessel price per pound of meat was 30 cents in 1980 compared with 29 cents in 1979.

The hard clam fishery produced 13.4 million pounds of meats valued at $44.1 million. This was an increase of 1.3 million pounds of meats or 11 percent and $10.3 million or 31 percent over 1979. Landings in the Middle Atlantic region (mostly New York) were 5.9 million pounds; New England, 4.4 million; South Atlantic, 1.8 million; Chesapeake, 795,000; and the Pacific, 477,000 pounds of meats. Average exvessel price per pound of meats in 1980 was $3.30 compared to $2.80 in 1979.

Soft clams yielded 8.9 million pounds of meats valued at $15.4 million. This was an increase of 363,000 pounds or 4 percent and $1.6 million or 12 percent in value over 1979. Maine was the leading State with 5.7 million pounds or 63 percent of the total catch, followed by Maryland with 1.9 million pounds of meats. The average exvessel price per pound of meats was $1.72 in 1980 compared with $1.60 for 1979.

CRABS. Landings of all species of crabs were a record 523.1 million pounds valued at $291.4 million, an increase of 33.9 million pounds or 7 percent in quantity and $7.1 million or 2 percent in value over 1979. Landings increased for major species except snow (tanner) and dungeness crabs.

Hard blue crab landings were 163.2 million pounds valued at $35.2 million, an increase of 10.4 million pounds or 7 percent and $3.7 million or 12 percent compared with 1979. Blue crab landings in the Chesapeake States of 63.3 million pounds decreased 1 percent from 1979. Blue crab landings in the South Atlantic States were 55.0 million pounds, up 12 percent; Middle Atlantic, 3.9 million pounds, up 197 percent; and landings in the Gulf States, 41.1 million pounds, up 8 percent over 1979. The average exvessel price per pound of crabs in 1980 was 22 cents compared with 21 cents in 1979.

Dungeness crab landings were 38.3 million pounds worth $21.6 million, a decrease of 412,000 pounds and $9.4 million (30 percent) compared with 1979. The average exvessel price per pound went from 80 cents in 1979 down to 56 cents in 1980. Oregon led with landings of 18.6 million pounds, up 25 percent from 1979. Landings in California decreased 25 percent; Washington, 18 percent; and Alaska decreased 7 percent when compared with 1979.

U.S. landings of king crabs were 185.6 million pounds, valued at $168.7 million to the fishermen. This harvest set a new record passing the previous high of 159.2 million pounds landed in 1966. The fishery in the Bering Sea continued to expand in 1980, and reached 158.4 million pounds, valued at $156.0 million. The exvessel price per pound reached $1.01 for 1980 compared with 96 cents in 1979. Landings in the Gulf of Alaska were 27.2 million pounds with an average exvessel price of $1.07 per pound compared with 22.0 million pounds landed in 1979 and valued at 95 cents per pound.

Snow (tanner) crab landings were 121.7 million pounds, valued at $55.2 million--a decrease of 9.7 million pounds or 7 percent from 1979, a record year for landings, and a decrease of $9.7 million or 15 percent in value. Landings taken in the Bering Sea of the smaller Chionoecetes opilio were 39.4 million pounds while C. bairdi landings were 37.8 million pounds. Landings of C. bairdi from the Gulf of Alaska were 44.5 million pounds, down 12.1 million pounds or 21 percent from 1979. The average price per pound for 1980 was 45 cents compared with 49 cents in 1979.

LOBSTER, AMERICAN. Landings of American lobster in 1980 were 37.0 million pounds valued at $75.2 million--down 232,000 pounds (1 percent) and up $2.9 million (4 percent) compared with 1979. The average exvessel price per pound was $2.04 in 1980 compared with $1.94 in 1979. Maine, the principal producing State landed 22.0 million pounds, about 1 percent less than the previous year. Massachusetts landings of 9.7 million pounds declined by only 18,000 pounds from the previous year. Rhode Island landings of 2.4 million pounds increased by 128,000 pounds compared with 1979.

REVIEW

IMPORTANT SPECIES

LOBSTER, SPINY. U.S. landings of spiny lobster were 6.9 million pounds valued at $14.8 million in 1980, up 560,000 pounds (9 percent) and $2.0 million (16 percent) from 1979. The average exvessel price per pound was $2.16 compared with $2.03 in 1979. Florida landings accounted for 95 percent of the total landings and 93 percent of the value.

OYSTERS. U.S. landings in 1980 yielded 49.1 million pounds of meats valued at $70.1 million, an increase of 1.0 million pounds or 2 percent in quantity and $4.5 million or 7 percent in value compared with 1979. Chesapeake States led in production with 20.8 million pounds of meat, followed by the Gulf States with 16.5 million pounds. Landings increased slightly in all areas except in the Middle Atlantic States where it declined by 13 percent.

SHRIMP. U.S. landings were 339.7 million pounds (heads-on) valued at $402.7 million--up 11 percent in volume but down 15 percent in value compared with 1979. The average exvessel price per pound for 1980 was $1.19 compared to $1.40 in 1979. Shrimp landings increased in the South Atlantic, Gulf, and Pacific States but declined in the New England States.

Gulf landings of 208.3 million pounds were up only 1 percent over 1979. Louisiana led all States with 88.7 million pounds (up 11 percent), followed by Texas, 74.1 million pounds (up 10 percent) above 1979.

SCALLOPS. U.S. landings of all species yielded 29.7 million pounds worth $114.3 million in 1980--down 4.4 million pounds or 13 percent in quantity but up $2.5 million or 2 percent in value from 1979. The average exvessel price per pound in 1980 was $3.85 compared to $3.28 in 1979.

U.S. bay scallop landings in 1980 of 968,000 pounds of meats valued at $3.9 million were down 806,000 pounds or 45 percent in quantity and $2.9 million or 43 percent in value compared with 1979. Massachusetts, the leading State in 1979 with 1.1 million pounds, had only 201,000 pounds in 1980. The average exvessel price per pound for bay scallops was $4.02 in 1980 compared to $3.83 in 1979.

Sea scallop landings were 28.8 million pounds valued at $110.4 million in 1980--down 2.7 million pounds or 9 percent in quantity and an increase in value of $7.2 million or 7 percent compared with 1979. Average exvessel price per pound in 1980 was $3.84 compared with $3.28 in 1979.

REVIEW

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was 13.0 pounds (edible meat) in 1980. This was 0.2 pound less than the 13.2 pounds consumed in 1979. All of this decrease was in canned fishery products which fell to 4.6 pounds per person, down 0.3 from 1979. Canned tuna was responsible for the total decrease, falling from 3.3 pounds in 1979 to 3.0 in 1980. Fresh and frozen fish and shellfish increased to 8.1 pounds per person in 1980, up 0.1 pound from 1979 and partly offsetting the decrease in canned. Fresh and frozen salmon increased 0.4 pound per person, up 0.2 pound from 1979. There was also an increase of 0.2 pound in other fish. Balancing out these increases in consumption of fresh and frozen fish was a decline of 0.4 pound in consumption of groundfish fillets and blocks. Per capita consumption of fresh and frozen shellfish moved up 0.1 pound due to a 0.1 pound increase in fresh and frozen crabs. Per capita consumption of cured fishery products, at 0.3 pound, remained the same as last year.

It appears that the increases in per capita consumption reflected during the 1970's may be reduced due to a considerable increase in the population estimates. The civilian population of the United States was 225.5 million persons on July 1, 1980, based on the Census count of April 1, 1980. This was considerably higher than the 220.7 million for the same date based on the April 1, 1970 census. When the 4.8 million error of closure has been resolved by the Bureau of the Census, estimates of the population for 1970-80 will be adjusted to make them consistent with the 1980 census count. These revisions in population will be reflected in the per capita consumption figures as soon as they become available. For continuity, the population figure, based on the 1970 census count, was used in computing 1980 per capita consumption.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen catch and consume an amount estimated to be 3 to 4 pounds (edible meat) per person.

PER CAPITA USE. The per capita use of all fishery products, both edible and industrial, was 51.0 pounds (round weight) in 1980, down 2.6 pounds (4.9 percent) from 1979. The reason for the decrease was that imports were down 688.6 million pounds (12.4 percent). The per capita use of edible fishery products was down 4.0 percent and industrial use was down 7.4 percent.

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1980, the U.S. production of raw (uncooked) fish fillets and steaks was 173.6 million pounds valued at $239.5 million, 13.5 million pounds and $21.4 million less than the 1979 production. Flounder fillets led all species with 46.9 million pounds or 27.0 percent of the total. Production of groundfish fillets and steaks (cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch) was 65.8 million pounds in 1980 compared with 74.6 million pounds produced a year earlier. The production of most fillets and steaks was less in 1980.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 449.6 million pounds valued at $488.5 million in 1980, compared with a 1979 production of 492.1 million pounds, valued at $529.0 million. The production of all portion items decreased in 1980: breaded cooked by 8.2 million pounds; batter coated cooked by 9.1 million; breaded raw by 10.7 million; and unbreaded portions by 6.9 million pounds, compared with the 1979 production.

FISH STICKS. The production in 1980 of 88.4 million pounds valued at $88.5 million was 7.7 million pounds and $11.3 million less than the 1979 production. The production of batter coated fish sticks, 18.4 million pounds, registered the largest decline, 8.5 million pounds; breaded cooked 822,000 pounds, but breaded raw increased by 1.7 million pounds.

BREADED SHRIMP. The 35 plants reporting to NMFS on a quarterly basis during 1980 produced 81.5 million pounds valued at $259.4 million. In 1979, 42 plants reporting on a quarterly basis produced 93.8 million pounds valued at $293.1 million. The 8 additional firms that reported only on an annual basis in 1979 produced 2.4 million pounds valued at $6.8 million that year. Data on the 1980 production of the plants that report only on an annual basis are not yet available.

FROZEN FISHERY TRADE. In 1980, stocks of frozen fishery products in cold storage were at a low of 333.7 million pounds on June 30 and a high of 471.2 million pounds on January 1. Cold storage holdings of shrimp products, which were 87.4 million pounds on January 31, dropped to 48.2 million pounds by June 30, and ended the year at 77.8 million pounds on December 31. Fish block holdings reached a high of 62.5 million pounds on January 1. By the end of 1980, stocks of fish blocks had declined to 46.7 million pounds. King crabs holdings were 34.1 million pounds on January 1, but were 37.8 million pounds on December 31, 1980.

REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The 1980 pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 53.0 million standard cases (1.5 billion pounds) valued at a record $1.9 billion--increases of 1.1 million standard cases (23.4 million pounds) and $164.3 million compared with the 1979 pack. The 1980 pack included 43.7 million standard cases (1.0 billion pounds) valued at a record $1.8 billion for human consumption and 9.3 million standard cases (448.1 million pounds) valued at $124.2 million for bait and animal food. The packs of herring and herring specialties, mackerel, salmon, tunalike fish, clams and clam products, clam specialties, shrimp, and squid increased in 1980, but the remaining packs of fish and shellfish declined.

CANNED SALMON. The 1980 U.S. pack of natural Pacific salmon reached 4.2 million standard cases, (201.6 million pounds) valued at $403.5 million, compared with 3.1 million standard cases (150.1 million pounds) valued at $275.2 million packed a year earlier. For the first time since 1949, the Alaska canned salmon pack topped 4 million cases, led by 1.6 million cases of red or sockeye, and 2.1 million standard cases of pinks. Alaskan plants accounted for more than 99 percent of the quantity and value of the salmon pack. The Alaskan catch was more than 110 million fish, about similar to the catch in 1934, when the canned pack was more than 7 million standard cases. However, that was made before the days of frozen salmon and air shipments of fresh salmon to markets in other States. An estimate of between 4 to 6 million pounds of salmon were flown fresh from Alaska to markets throughout the U.S. during the 1980 season.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 846,500 standard cases valued at $31.5 million, a decrease of 451,300 standard cases and $13.4 million compared with 1979. An additional pack of herring and herring specialties of 134,900 standard cases valued at $10.5 million was packed in 1980--63,300 standard cases and $5.6 million more than the 1979 pack. The decline in the Maine sardine pack was attributed to larger size fish which were utilized in the pack of herring specialties.

CANNED TUNA. The 1980 U.S. pack of tuna was 30.9 million standard cases, (608.4 million pounds) valued at $1.1 billion. This was 528,300 standard cases and 11.8 million pounds less than the 1979 pack, however, the value increased by $29.0 million in 1980. The pack of albacore tuna was 5.5 million standard cases in 1980--294,000 standard cases less than the 5.8 million standard cases produced in 1979. Albacore tuna was 18 percent of the pack in 1980. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 25.4 million standard cases--235,000 standard cases less than the 25.6 million standard cases packed in 1979. Plants in the United States packed 47.3 percent of the total; American Samoa, Hawaii, and Puerto Rico packed the rest. About 32 percent of the total supply of canned tuna was packed from U.S.-caught fish, and 58 percent from imported fish. Imports of canned tuna made up the remaining 10 percent.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 3.0 million standard cases valued at a record $66.0 million compared with 1979. The 1980 pack of whole and minced clams of 788,100 standard cases, which was 59,500 standard cases more than the 1979 pack, accounted for 26 percent of the total pack in 1980. Clam chowder and clam juice (2.3 million standard cases) made up the remaining 1980 pack.

CANNED SHRIMP. The 1980 U.S. pack of natural shrimp was 2.4 million standard cases valued at $71.1 million, 977,400 standard cases and $31.0 million more than the 1979 pack. Plants in Louisiana and Mississippi packed 1.8 million standard cases nearly double the pack of the previous year when only 900,000 standard cases were packed. The remaining pack (644,400) was packed in plants in Alaska and Washington.

OTHER CANNED ITEMS. The U.S. pack of mackerel was 824,300 standard cases valued at $11.3 million in 1980, 242,200 standard cases and $3.6 million more than the previous year. The pack of tunalike fish (bonito) in 1980 was 227,100 standard cases valued at $4.7 million, compared with 75,500 standard cases, valued at $1.6 million a year earlier. The natural pack of oysters continued to decline. In 1980 less than three plants produced this item. In 1980 the pack of pet food (10 pounds of fish per standard case of 48 one-pound cans) was 9.3 million standard cases valued at $123.2 million, a decline of 660,100 standard cases and $23.6 million compared with the pack in 1979. A decline in the pack of natural tuna, accounted for the decrease in the pack of pet food in 1980. Tuna accounted for 49 percent of the pet food pack.

REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The 1980 value of industrial fishery products produced in the 50 States, American Samoa, and Puerto Rico was a record $268.8 million, $9.3 million more than the previous record in 1979. In terms of value, the leading States were Louisiana ($96.3 million), followed by Maine ($47.2 million), and Virginia ($27.2 million).

FISH MEAL AND SCRAP. Domestic production in 1980 (including shellfish meal) was 361,922 short tons, 12,371 short tons less than the record production of 374,293 short tons produced in 1979. Menhaden meal (271,181 short tons) was 9,632 short tons less than the record production of 280,813 short tons produced in 1979, but still amounted to nearly 75 percent of all the domestic fish meal and shellfish meal produced. The production of anchovy meal (7,834 short tons), tuna and mackerel meal (47,019 short tons), and shellfish meal (6,595 short tons) were down from the 1979 production by 2,072 short tons, 372 short tons, and 4,383 short tons respectively. Unclassified meal (29,293 short tons) consisting mainly of alewives, carp, sea herring, and unclassified fish measured the only increase--4,088 short tons more than the 1979 production.

FISH SOLUBLES. Domestic production of fish solubles in 1980 (133,682 short tons) was 1,246 short tons less than the 1979 production. Menhaden solubles (99,375 short tons) accounted for more than 74 percent of the total production.

FISH OILS. The 1980 domestic production of fish oils set a record in quantity when 311.6 million pounds were produced--43.6 million pounds more than the 1979 production and 12.3 million pounds more than the previous record set in 1936 when 299.3 million pounds were produced. Menhaden oil production of 291.4 million pounds was 40.1 million pounds more than the 1979 production and comprised 94 percent of all fish oils produced. Tuna and mackerel oil (4.1 million pounds) and anchovy oil (1.4 million pounds) declined in production in 1980, by 1.3 million pounds and 1.4 million pounds respectively. The production of unclassified oil (14.7 million pounds) was 6.3 million pounds more than the 1979 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $63.2 million in 1980, compared with $58.8 million in 1979.

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. The value of U.S. imports of edible fishery products was a record $2,682 million, $14 million higher than the record $2,668 million established in 1979. However, the quantity of edible imports was 225 million pounds less than the 2,369 million pounds imported in 1979. This increase in value for edible imports was mainly due to higher prices for nearly all imported products.

Imports were higher in 1980 for fresh and frozen halibut, salmon, tuna other than albacore, and crabmeat, and for canned sardines not in oil, tuna not in oil, bonito and yellowtail in oil and not in oil, and American lobsters. Edible imports in 1980 consisted of 1,868 million pounds of fresh and frozen products valued at $2,320 million, 212 million pounds of canned products valued at $297 million, 58 million pounds of cured products valued at $60 million, and 6 million pounds of other products valued at $5 million.

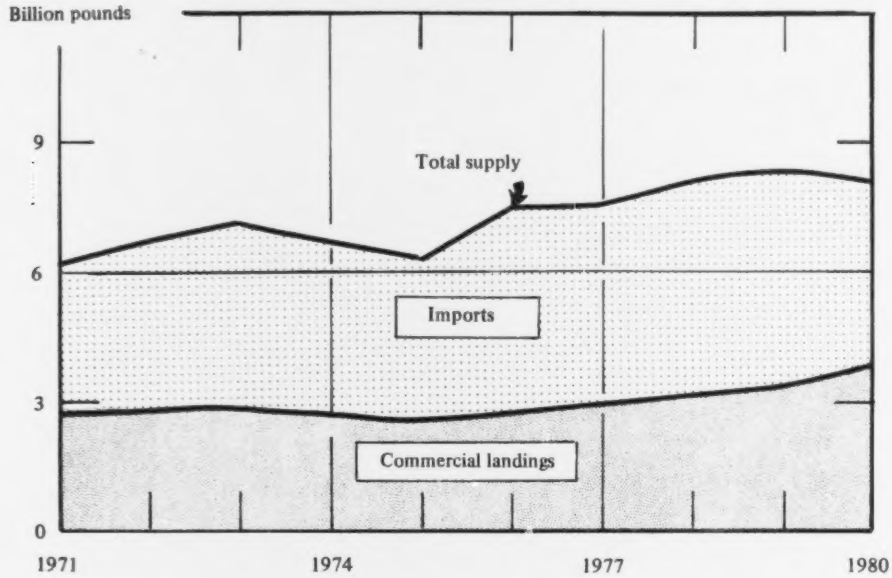
Adding nonedible imports valued at $966 million to the edible products gives total fishery imports in 1980 of $3,648 million. The 1980 value was $177 million less than the record nonedible imports of $1,143 million in 1979.

EXPORTS. U.S. exports of edible fishery products of domestic origin exceeded the record established for quantity in 1979. The new record of 573.9 million pounds was 20.3 million pounds more than the 553.6 million pounds exported in 1979. The value of these same exports was $904.4 million in 1980, $115.8 million less than the record value of $1,020.2 million in 1979. Decreases in the value of fresh and frozen fish and shellfish products were responsible for most of the decline.

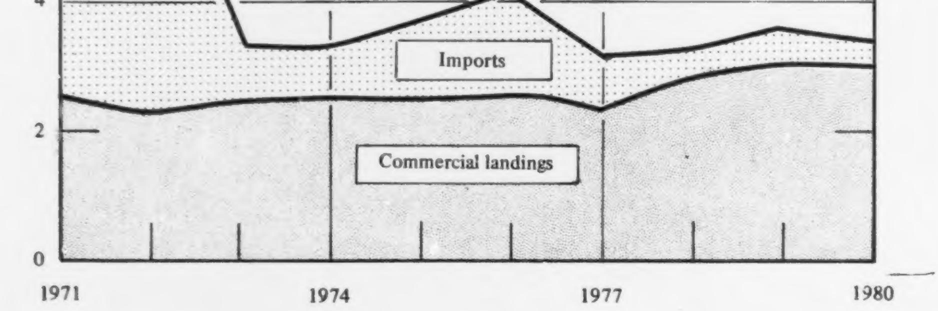
Adding exports of nonedible products valued at $101.8 million to exports of edible products results in total exports of $1,006.2 million in 1980, $76.2 million less than the 1979 exports of $1,082.4 million.

U.S. COMMERCIAL LANDINGS

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS, 1971-80
(Round weight)



U.S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1971-80
(Round weight)



U.S. COMMERCIAL LANDINGS, BY SPECIES, 1979 AND 1980 (1)

Species	1979		1980		5-year average (1975-79)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf . . .	9,691	639	10,985	779	14,863
Great Lakes	23,871	501	17,523	280	36,492
Anchovies	117,403	9,895	106,942	8,712	194,502
Bluefish.	13,207	2,197	15,676	2,426	11,464
Bonito.	5,442	1,066	14,686	2,881	15,634
Butterfish.	6,053	2,127	11,568	3,848	4,912
Cod:					
Atlantic.	99,352	28,632	118,245	31,883	74,674
Pacific	12,382	2,639	19,672	6,069	11,561
Croaker	28,040	5,781	28,473	6,725	31,307
Cusk.	3,736	792	4,297	872	3,156
Flounders:					
Atlantic and Gulf:					
Blackback	24,810	9,868	36,008	12,595	25,571
Fluke	30,721	15,977	34,752	18,010	21,899
Yellowtail.	35,246	17,679	42,619	19,855	35,565
Other	50,254	22,386	43,187	16,592	34,699
Pacific	68,257	16,835	60,354	15,436	58,388
Total	209,288	82,745	216,920	82,488	176,122
Groupers.	8,156	6,424	8,682	7,804	7,572
Haddock	41,882	17,705	55,188	21,424	27,745
Hake:					
Pacific (whiting) . . .	30,750	2,057	12,021	401	9,626
Red	7,040	953	5,597	677	4,754
White	8,881	1,470	10,428	1,748	9,554
Halibut	21,385	34,618	19,153	16,823	19,790
Herring, sea:					
Atlantic.	143,372	8,395	183,993	10,363	111,313
Pacific	65,658	38,351	107,076	34,592	46,585
Jack mackerel	35,150	2,525	44,390	3,995	56,296
Lingcod	7,143	1,673	8,129	2,290	8,006
Mackerel:					
Atlantic.	4,463	1,059	5,913	816	4,280
King.	4,859	3,503	7,035	5,361	6,921
Pacific	59,005	4,208	64,668	5,820	(2)
Spanish	6,450	1,431	11,968	3,137	10,319
Menhaden:					
Atlantic.	886,238	36,004	948,859	42,883	777,963
Gulf.	1,718,243	73,426	1,547,790	69,129	1,389,604
Total	2,604,481	109,430	2,496,649	112,012	2,167,567
Mullet.	25,886	4,817	37,360	7,153	29,160
Ocean perch:					
Atlantic.	34,039	7,164	24,201	5,548	33,768
Pacific	7,286	1,487	6,771	1,023	6,228
Pollock:					
Atlantic.	35,546	6,657	39,652	7,172	29,587
Alaska.	5,625	471	3,107	245	1,054
Rockfishes.	68,010	15,285	105,735	19,060	49,102
Sablefish	48,441	14,827	22,122	5,396	21,424
Salmon, Pacific:					
Chinook or king	33,008	57,270	28,533	47,453	32,245
Chum or keta.	45,784	26,363	84,916	39,640	48,022

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1979 AND 1980 (1) - Continued

Species	1979		1980		5-year average (1975-79)
Fish - continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Salmon, Pacific - cont.:					
Pink	226,830	92,059	253,541	90,757	140,556
Red or sockeye	190,727	180,404	207,551	131,354	102,970
Silver or coho	39,767	56,680	39,270	43,073	33,623
Total	536,116	412,776	613,811	352,277	357,416
Scup or porgy	20,472	7,219	20,027	7,947	18,779
Sea bass:					
Black	4,531	2,581	3,953	2,688	4,964
White	900	1,056	879	1,537	967
Sea trout:					
Gray	30,579	6,282	35,070	7,324	21,995
Spotted	4,455	3,151	4,379	3,171	5,441
White	1,322	283	1,196	265	1,518
Sharks:					
Dogfish	19,319	1,681	16,759	1,416	(2)
Other	3,325	1,561	4,486	1,634	3,131
Snapper:					
Red	4,941	7,042	4,949	7,839	6,923
Other	2,854	2,996	3,106	3,913	2,548
Striped bass	3,492	4,241	4,536	4,902	5,514
Swordfish	8,038	13,931	9,175	17,764	(2)
Tuna:					
Albacore	15,418	9,972	15,872	12,717	35,659
Bigeye	2,934	2,301	2,277	1,378	(2)
Bluefin	14,897	8,800	7,991	7,086	17,860
Little	126	56	535	100	104
Skipjack	120,104	44,876	179,443	96,155	116,799
Yellowfin	210,227	92,294	192,182	115,096	226,457
Unclassified	770	88	1,132	593	612
Total	364,476	158,387	399,432	233,125	399,048
Warsaw	83	43	112	62	168
Whiting	35,264	5,770	35,571	6,113	44,349
Wolffish	1,530	223	1,983	276	1,163
Other marine finfishes:					
Atlantic and Gulf	188,241	35,466	190,912	46,842	-
Pacific	12,234	3,585	4,393	1,039	-
Other freshwater finfishes	88,247	24,167	128,860	34,951	-
Total Fish	5,132,392	1,113,965	5,328,414	1,154,908	-
Shellfish et al.					
Clams:					
Hard	12,058	33,720	13,370	44,068	14,243
Ocean quahog	34,724	10,233	33,832	10,187	(2)
Soft	8,585	13,776	8,948	15,391	9,731
Surf	34,912	19,273	37,737	19,107	52,247
Other	1,771	2,203	1,482	1,470	2,372
Total	92,050	79,205	95,369	90,223	93,841
Crabs:					
Blue, hard	152,830	31,424	163,206	35,167	132,778
Dungeness	38,690	31,019	38,278	21,613	38,025
King	154,589	148,550	185,624	168,694	118,033
Snow (tanner)	131,393	64,834	121,674	55,161	97,222
Other	11,682	8,416	14,329	10,715	10,467
Total	489,184	284,243	523,111	291,350	396,525

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS, BY SPECIES, 1979 AND 1980 (1) - Continued

Species	1979		1980		5-year average (1975-79)
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Lobsters:					
American.	37,184	72,298	36,952	75,233	32,818
Spiny	6,301	12,765	6,861	14,801	5,791
Oysters	48,081	65,612	49,081	70,075	50,529
Scallops:					
Bay	1,774	6,798	968	3,894	1,786
Calico.	863	1,846	-	-	1,317
Sea	31,466	103,206	28,752	110,429	23,406
Shrimp:					
New England	1,072	338	731	477	3,171
South Atlantic.	32,295	65,273	32,996	57,399	24,294
Gulf.	206,564	377,642	208,280	302,077	220,182
Pacific	96,019	28,300	97,697	42,741	148,877
Other	6	20	3	3	7
Total	335,956	471,573	339,707	402,697	396,531
Squid:					
Atlantic.	13,392	4,273	9,794	3,177	6,346
Pacific	35,297	3,703	25,202	2,241	26,564
Other shellfish	43,212	14,192	38,143	18,174	-
Total shellfish et al. .	1,134,760	1,119,714	1,153,940	1,082,294	-
Grand total	6,267,152	2,233,679	6,482,354	2,237,202	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). (2) Data not available.

Note:--Data are preliminary. Joint venture catches are included in 1979 but not in 1980. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS, BY REGIONS, 1979 AND 1980 (1)

Region	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England.	708,606	302,037	788,089	327,299
Middle Atlantic.	228,452	92,433	244,034	96,594
Chesapeake	638,990	121,577	717,086	129,651
South Atlantic	488,422	145,154	473,457	148,377
Gulf	2,128,903	530,145	1,979,115	463,205
Pacific Coast and Alaska . . .	1,924,718	1,005,687	2,140,278	1,025,255
Great Lakes.	48,975	10,814	44,032	14,021
Hawaii	13,664	10,659	11,435	11,870
Other.	86,422	15,173	84,828	20,930
Total	6,267,152	2,233,679	6,482,354	2,237,202

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

Note:--Data are preliminary. Joint venture catches are included in 1979 but not in 1980. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. COMMERCIAL LANDINGS, BY STATES, 1979 AND 1980 (1)

State	1979		1980		Record landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama.	33,269	49,981	26,605	25,575	1973	39,749
Alaska	898,539	597,034	1,053,896	560,603	1980	1,053,896
California	728,406	227,473	804,276	323,393	1936	1,760,183
Connecticut.	6,456	6,900	5,198	4,675	1930	88,012
Delaware	1,627	638	4,074	1,969	1953	367,500
Florida.	163,056	124,002	191,470	124,834	1938	241,443
Georgia.	21,909	27,738	19,427	20,061	1927	47,607
Hawaii	13,664	10,659	11,435	11,870	1954	20,610
Idaho.	400	35	120	20	-	(2)
Illinois	4,618	1,024	4,587	1,103	-	(2)
Indiana.	101	66	127	112	-	(2)
Iowa	3,741	818	3,741	900	-	(2)
Kansas	170	35	170	39	-	(2)
Louisiana.	1,529,081	198,508	1,423,374	177,994	1978	1,673,922
Maine.	232,105	80,260	244,686	92,697	1950	356,266
Maryland	66,283	36,945	79,571	44,658	1890	141,607
Massachusetts.	374,706	175,544	438,382	178,602	1948	649,696
Michigan	10,945	3,555	10,455	4,822	1930	35,580
Minnesota.	10,571	1,946	10,317	2,128	-	(2)
Mississippi.	383,632	33,342	337,765	26,601	1971	400,576
Missouri	970	203	970	220	-	(2)
Nebraska	111	25	111	28	-	(2)
New Hampshire.	7,495	3,327	19,050	5,182	-	(2)
New Jersey	189,314	53,034	200,634	49,879	1956	540,060
New York	37,895	38,966	39,725	45,058	1880	335,000
North Carolina	390,472	58,454	356,193	68,784	1979	390,472
North Dakota	727	101	727	111	-	(2)
Ohio	9,193	2,559	10,490	3,351	1936	31,083
Oregon	127,798	65,221	126,316	55,748	1978	134,657
Pennsylvania	393	251	347	312	-	(2)
Rhode Island	87,844	36,006	80,773	46,143	1889	128,056
South Carolina	21,449	25,792	21,183	20,448	1965	26,611
South Dakota	2,259	309	2,259	340	-	(2)
Texas.	84,891	160,200	98,478	153,880	1960	237,684
Virginia	572,707	84,632	637,515	84,993	1972	666,180
Washington	169,975	115,959	155,790	85,511	1941	197,253
West Virginia.	31	14	31	15	-	(2)
Wisconsin.	36,205	4,862	30,745	5,901	-	(2)
Other.	44,144	7,261	31,341	8,642	-	(2)
Total	6,267,152	2,233,679	6,482,354	2,237,202	1980	6,482,354

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

(2) Not determined.

Note:--Data are preliminary. Joint venture catches are included in 1979 but not in 1980. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

COMMERICAL FISHERY LANDINGS AT MAJOR U.S. PORTS, 1977-80

	Quantity					Value			
Port	1977	1978	1979	1980	Port	1977	1978	1979	1980
	-Million pounds-					-Million dollars-			
Cameron, La.	306.7	606.0	593.1	479.8	San Pedro, Calif.	109.1	92.1	89.3	*121.9
San Pedro, Calif.	519.5	312.8	378.2	380.1	San Diego, Calif.	43.4	69.8	62.7	110.6
Pascagoula-Moss Point, Miss.	272.2	334.8	283.8	291.9	Dutch Harbor, Alaska.	61.4	99.7	92.7	91.3
Empire-Venice, La.	190.5	292.8	278.9	275.4	Kodiak, Alaska	72.5	92.6	73.4	84.6
Dulac-Chauvin, La.	153.7	300.2	246.3	265.8	New Bedford, Mass.	43.2	54.6	67.4	71.3
Gloucester, Mass.	150.9	185.4	160.2	210.0	Dulac-Chauvin, La.	33.1	46.7	41.5	50.0
Kodiak, Alaska	179.6	177.4	150.5	207.4	Akutan, Alaska	15.9	21.2	28.2	42.8
San Diego, Calif.	124.1	168.3	156.6	199.1	Brownsville-Port Isabel, Tex.	42.0	43.0	50.0	42.2
Beaufort-Morehead City, N.C.	100.7	108.7	218.5	171.5	Aransas Pass-Rockport, Tex.	39.0	39.0	40.0	40.2
Dutch Harbor, Alaska.	100.5	125.8	136.8	136.5	Gloucester, Mass.	21.5	28.9	29.7	34.7
New Bedford, Mass.	75.5	71.9	86.0	99.6	Cameron, La.	18.9	34.2	34.3	33.3
Akutan, Alaska	20.8	17.2	38.2	58.9	Empire-Venice, La.	18.0	26.4	28.8	31.0
Rockland, Maine	(1)	40.1	41.8	56.0	Hampton-Norfolk, Va.	9.1	24.3	31.1	27.5
Portland, Maine.	30.4	45.9	59.6	54.9	Cape May-Wildwood, N.J.	20.7	25.1	32.2	26.9
Cape May-Wildwood, N.J.	48.6	47.7	58.3	51.5	Bayou La Batre, Ala.	25.7	25.1	34.9	23.7
Pt. Judith, R.I.	(1)	55.3	54.3	42.9	Beaufort-Morehead City, N.C.	4.5	6.2	22.7	22.5
Bellingham, Wash.	33.0	38.0	40.0	40.0	Freeport, Tex.	26.0	28.0	25.0	19.9
Astoria, Oreg.	28.5	45.6	40.4	39.8	Newport, R.I.	9.2	10.7	13.2	19.5
Wanchese-Stumpy Point, N.C.	(1)	20.5	34.6	39.5	Pascagoula-Moss Point, Miss.	17.6	19.4	18.1	18.9
Newport, Oreg.	23.3	33.1	36.0	36.4	Key West, Fla.	18.0	22.4	25.9	18.3
Eureka, Calif.	48.7	44.4	32.1	34.5	Petersburg, Alaska	20.0	17.5	23.7	17.0
Boston, Mass.	22.2	27.3	30.3	34.4	Bellingham, Wash.	14.5	15.3	16.8	15.2
Petersburg, Alaska	33.6	31.0	31.9	32.3	Lafitte-Barataria, La.	12.7	11.5	16.6	14.8
Newport, R.I.	18.4	16.8	21.6	28.2	Astoria, Oreg.	10.0	20.1	18.2	13.7
Charleston-Coos Bay, Oreg.	23.4	27.1	23.5	27.0	Newport, Oreg.	9.3	10.6	12.6	13.7
Provincetown, Mass.	17.9	19.9	23.4	25.8	Portland, Maine.	4.7	7.5	10.1	13.6
Hampton-Norfolk, Va.	18.7	31.2	27.2	23.8	Charleston-Coos Bay, Oreg.	9.4	9.2	8.2	13.5
Ocean City, Md.	12.0	14.4	18.4	22.3	Delcambre, La.	10.7	16.7	14.8	13.3
Aransas Pass-Rockport, Tex.	25.0	23.0	19.0	22.1	Wanchese-Stumpy Point, N.C.	(1)	8.5	13.0	13.0
Brownsville-Port Isabel, Tex.	28.0	24.0	22.0	21.6	Boston, Mass.	6.0	8.1	10.7	12.3
Bayou La Batre, Ala.	25.1	22.2	21.8	19.9	Golden Meadow-Leeville, La.	18.5	19.1	22.5	12.2
Oriental-Vandemere, N.C.	(1)	(1)	19.5	19.8	Pt. Judith, R.I.	(1)	9.5	11.0	11.5
Ketchikan, Alaska	54.8	55.7	22.1	17.3	Westport, Wash.	13.0	12.5	10.8	11.5
Seattle, Wash.	15.3	16.3	16.5	16.0	Apalachicola, Fla.	5.5	13.3	10.1	11.3
Chincoteague, Va.	(1)	13.0	12.3	15.9	Eureka, Calif.	17.0	19.5	14.3	11.0
Key West, Fla.	15.0	15.0	16.5	15.4	Ft. Myers, Fla.	8.0	13.1	17.8	10.9
Golden Meadow-Leeville, La.	23.5	22.1	15.6	15.4	Provincetown, Mass.	6.9	9.1	10.3	10.4
Sandwich, Mass.	(1)	(1)	17.5	14.2	Ocean City, Md.	5.9	6.9	8.2	9.9
Ft. Myers, Fla.	6.0	15.2	15.9	13.5	Oriental-Vandemere, N.C.	(1)	(1)	6.6	9.1
Applachicola, Fla.	5.7	12.4	10.4	11.6	Ketchikan, Alaska	23.9	26.4	16.4	8.7
Lafitte-Barataria, La.	18.3	13.1	10.4	11.1	Charleston-Mt. Pleasant, S.C.	(1)	(1)	12.5	8.5
Point Pleasant, N.J.	14.1	15.7	12.8	11.1	Rockland, Maine	(1)	(1)	(1)	8.4
Freeport. Tex.	17.0	16.0	8.0	10.1	Chincoteague, Va.	(1)	6.1	6.5	8.0
Blaine, Wash.	(1)	10.0	10.5	10.0	Bon Secour-Gulf Shores, Ala.	10.1	10.0	16.0	7.7
Brookings, Oreg.	(1)	10.7	9.8	9.5	Darien-Bellevue, Ga.	(1)	(1)	8.7	7.5
Delcambe, La.	(1)	(1)	(1)	8.6	Sandwich, Mass.	(1)	(1)	9.8	7.4
Darien-Bellevue, Ga.	(1)	(1)	9.0	8.2	Seattle, Wash.	6.2	6.3	6.6	6.0
Cape Charles-Oyster, Va.	10.8	10.8	9.7	8.1	Thunderbolt, Ga.	(1)	(1)	6.7	5.7
Charleston-Mt. Pleasant, S.C.	(1)	(1)	8.1	6.9	Point Pleasant, N.J.	5.1	5.9	6.8	5.0
Thunderbolt, Ga.	(1)	(1)	(1)	5.4	Blaine, Wash.	(1)	(1)	(1)	4.0

(1) Not available.

*Record. Record quantity was 848.2 million lb landed in San Pedro, Calif., in1950.

Note:--Data for some ports are estimated. To avoid disclosure of private enterprise, the following ports were not included: Fernandina Beach, Fla.; Intercoastal City and Morgan City, La.; Chatham, Mass.; Biloxi, Miss.; Port Monmouth-Belford, N.J.; Southport-Calabash, N.C.; and Reedville, Va.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1971-80 (1)

Year	Landings for human food		Landings for industrial products (2)		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1971.	2,441	604	2,577	47	5,018	651
1972.	2,435	702	2,371	46	4,806	748
1973.	2,398	836	2,460	101	4,858	937
1974.	2,496	844	2,471	88	4,967	932
1975	2,465	904	2,412	73	4,877	977
1976	2,775	1,257	2,613	92	5,388	1,349
1977 (3).	2,900	1,404	2,298	111	5,198	1,515
1978 (3).	3,177	1,733	2,851	121	6,028	1,854
1979 (3).	3,318	2,093	*2,949	141	6,267	2,234
1980 (3).	*3,654	2,092	2,828	145	*6,482	2,237

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). (2) Processed into meal, oil, fish solubles, and shell products, and used as bait or animal food. (3) Data are preliminary.

Note:--Joint venture catches are included in 1979 but not in 1980. Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams. *Record.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, 1979 AND 1980

End Use	1979		1980	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.	2,268	36.2	2,495	38.5
For bait and animal food. .	126	2.0	126	1.9
Total.	2,394	38.2	2,621	40.4
Canned:				
For human food.	956	15.3	1,063	16.4
For bait and animal food. .	90	1.4	97	1.5
Total.	1,046	16.7	1,160	17.9
Cured for human food.	94	1.5	97	1.5
Reduction to meal, oil, etc..	2,733	43.6	2,604	40.2
Grand total.	6,267	100.0	6,482	100.0

Note:--Data are preliminary.

DISPOSITION OF U.S. COMMERCIAL LANDINGS, BY MONTHS, 1980

Month	Landings for human food		Landings for industrial products (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.	143	3.9	40	1.4	183	2.8
February	158	4.3	6	.2	164	2.5
March.	206	5.6	11	.4	217	3.3
April.	246	6.7	140	4.9	386	6.0
May.	353	9.7	407	14.3	760	11.7
June	278	7.6	463	16.4	741	11.5
July	623	17.1	545	19.3	1,168	18.0
August	508	13.9	469	16.6	977	15.1
September.	380	10.4	387	13.7	767	11.8
October.	344	9.4	217	7.7	561	8.7
November	221	6.1	62	2.2	283	4.4
December	194	5.3	81	2.9	275	4.2
Total	*3,654	100.0	2,828	100.0	*6,482	100.0

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

*Record. Record U.S. industrial products was 2,949 million lb in 1979.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1980 (1)

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf.	10,870	772	115	7	-	-	10,985	779
Great Lakes. . . .	17,523	280	-	-	-	-	17,523	280
Anchovies.	12,000	6,000	94,942	2,712	-	-	106,942	8,712
Bluefish	11,404	1,756	4,272	670	-	-	15,676	2,426
Bonito	2,620	562	4,086	771	7,980	1,548	14,686	2,881
Butterfish	984	445	10,584	3,403	-	-	11,568	3,848
Cod:								
Atlantic	3,951	1,283	114,125	30,547	169	53	118,245	31,883
Pacific.	15,493	5,252	23,852	2,587	-	-	39,345	7,839
Croaker.	18,839	4,590	9,634	2,135		-	28,473	6,725
Cusk	62	11	4,154	844	81	17	4,297	872
Flounders:								
Atlantic and Gulf:								
Blackback. . . .	6,645	2,077	29,361	10,517	2	1	36,008	12,595
Fluke.	10,102	5,772	24,650	12,238	-	-	34,752	18,010
Yellowtail . . .	4,061	2,003	38,549	17,848	9	4	42,619	19,855
Other.	2,584	948	40,540	15,610	63	34	43,187	16,592
Pacific.	6,727	1,016	81,557	16,119	-	-	88,284	17,135
Total.	30,119	11,816	214,657	72,332	74	39	244,850	84,187
Groupers	179	163	8,294	7,466	209	175	8,682	7,804
Haddock.	324	120	54,300	21,019	564	285	55,188	21,424
Hake:								
Pacific (whiting).	10,287	257	62,442	3,390	-	-	72,729	3,647
Red.	877	107	4,720	570	-	-	5,597	677
White.	211	31	10,105	1,692	112	25	10,428	1,748
Halibut.	7,424	5,336	11,727	11,483	2	4	19,153	16,823
Herring, sea:								
Atlantic	150,359	8,338	33,634	2,025	-	-	183,993	10,363
Pacific.	107,076	34,592	-	-	-	-	107,076	34,592
Jack mackerel. . . .	4,390	395	40,021	3,601	-	-	44,411	3,996
Lingcod.	547	141	7,582	2,149	-	-	8,129	2,290
Mackerel:								
Atlantic	3,584	512	2,329	304	-	-	5,913	816
King	843	671	6,192	4,690	-	-	7,035	5,361
Pacific.	2,500	225	62,759	5,604	-	-	65,259	5,829
Spanish.	6,533	1,698	5,435	1,439	-	-	11,968	3,137

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1980 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden:								
Atlantic	944,959	42,699	3,900	184	-	-	948,859	42,883
Gulf	1,305,181	58,146	242,609	10,983	-	-	1,547,790	69,129
Total	2,250,140	100,845	246,509	11,167	-	-	2,496,649	112,012
Mullet	37,353	7,152	7	1	-	-	37,360	7,153
Ocean perch:								
Atlantic	20	4	22,211	5,085	1,970	459	24,201	5,548
Pacific	9	2	6,936	1,039	-	-	6,945	1,041
Pollock:								
Atlantic	789	145	38,036	6,862	827	165	39,652	7,172
Alaska	2,613	207	26,507	1,599	-	-	29,120	1,806
Rockfishes	5,521	1,739	100,481	17,321	64	20	106,066	19,080
Sablefish	1,229	387	21,109	5,026	-	-	22,338	5,413
Salmon, Pacific:								
Chinook or king	19,457	30,066	9,076	17,387	-	-	28,533	47,453
Chum or keta	84,916	39,640	-	-	-	-	84,916	39,640
Pink	253,532	90,753	9	4	-	-	253,541	90,757
Red or sockeye	207,551	131,354	-	-	-	-	207,551	131,354
Silver or coho	33,760	36,452	5,510	6,621	-	-	39,270	43,073
Total	599,216	328,265	14,595	24,012	-	-	613,811	352,277
Scup or porgy	8,458	3,471	11,569	4,476	-	-	20,027	7,947
Sea bass:								
Black	445	431	3,508	2,257	-	-	3,953	2,688
White	45	78	-	-	834	1,459	879	1,537
Sea trout:								
Gray	20,166	4,859	14,904	2,465	-	-	35,070	7,324
Spotted	4,358	3,165	21	6	-	-	4,379	3,171
White	393	106	803	159	-	-	1,196	265
Sharks:								
Dogfish	7,564	749	9,195	667	-	-	16,759	1,416
Other	1,297	557	3,062	1,067	127	10	4,486	1,634
Snapper:								
Red	68	110	4,321	7,072	560	657	4,949	7,839
Other	423	517	2,568	3,272	115	124	3,106	3,913
Striped bass	4,473	4,803	63	99	-	-	4,536	4,902
Swordfish	122	273	7,996	15,644	1,057	1,847	9,175	17,764

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1980 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Fish - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	1	(3)	12,575	10,297	3,335	2,453	15,911	12,750
Bigeye	-	-	21	35	7,029	4,040	7,050	4,075
Bluefin.	7	7	3,675	4,451	4,434	2,702	8,116	7,160
Little	43	11	179	58	313	31	535	100
Skipjack	49	37	4,902	3,364	230,061	122,584	235,012	125,985
Yellowfin.	241	303	2,268	2,847	229,108	135,264	231,617	138,414
Unclassified . . .	16	2	1,115	590	666	267	1,797	859
Total	357	360	24,735	21,642	474,946	267,341	500,038	289,343
Warsaw	-	-	112	62	-	-	112	62
Whiting.	4,490	790	31,081	5,323	-	-	35,571	6,113
Wolffish	132	22	1,848	254	3	(3)	1,983	276
Other marine finfishes:								
Atlantic and Gulf.	102,097	23,453	59,970	16,995	7	4	162,074	40,452
Pacific.	18,221	3,638	16,842	3,734	211	89	35,274	7,461
Other freshwater fishes.	128,860	34,951	-	-	-	-	128,860	34,951
Total fish. . .	3,617,858	606,432	1,458,950	338,746	489,912	274,321	5,566,720	1,219,499
Shellfish et al.								
Clams:								
Hard	13,234	43,601	136	467	-	-	13,370	44,068
Ocean quahog . . .	3,215	992	30,617	9,195	-	-	33,832	10,187
Soft	8,887	15,314	61	77	-	-	8,948	15,391
Surf	3,019	1,222	34,718	17,885	-	-	37,737	19,107
Other.	1,482	1,470	-	-	-	-	1,482	1,470
Total	29,837	62,599	65,532	27,624	-	-	95,369	90,223
Crabs:								
Blue, hard	163,153	35,150	53	17	-	-	163,206	35,167
Dungeness.	31,676	17,956	6,602	3,657	-	-	38,278	21,613
King	37,125	33,738	148,499	134,956	-	-	185,624	168,694
Snow (tanner). . .	14,229	7,476	107,445	47,685	-	-	121,674	55,161
Other.	4,603	3,478	9,723	7,236	3	1	14,329	10,715
Total	250,786	97,798	272,322	193,551	3	1	523,111	291,350

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1980 (1) - Continued

Species	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		Total	
	0 to 3 miles (2)		3 to 200 miles					
Shellfish et al. - continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Lobsters:								
American	32,566	64,793	4,333	10,312	53	128	36,952	75,233
Spiny.	1,356	3,210	5,055	10,585	450	1,006	6,861	14,801
Oysters.	49,081	70,075	-	-	-	-	49,081	70,075
Scallops:								
Bay.	968	3,894	-	-	-	-	968	3,894
Sea.	2,071	7,621	26,678	102,793	3	15	28,752	110,429
Shrimp:								
New England. . . .	151	123	580	354	-	-	731	477
South Atlantic . .	23,712	41,442	9,284	15,957	-	-	32,996	57,399
Gulf	77,144	86,838	131,136	215,239	-	-	208,280	302,077
Pacific Coast. . .	52,546	16,453	45,151	26,288	-	-	97,697	42,741
Other.	3	3	-	-	-	-	3	3
Total	153,556	144,859	186,151	257,838	-	-	339,707	402,697
Squid:								
Atlantic	6,583	2,229	3,207	947	4	1	9,794	3,177
Pacific.	23,768	2,113	1,434	128	-	-	25,202	2,241
Other shellfish. . .	34,078	13,983	4,065	4,191	17,100	37,620	55,243	55,794
Total shellfish et al.. .	584,650	473,174	568,777	607,969	17,613	38,771	1,171,040	1,119,914
Grand total . .	4,202,508	1,079,606	2,027,727	946,715	507,525	313,092	6,737,760	2,339,413

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell).

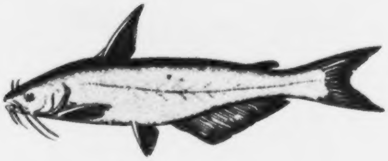
(2) Includes all landings in the Great Lakes and other inland waters.

(3) Less than 500 lb or $500.

Note:--Data are preliminary. They include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catch by U.S.-flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings " table. Data do not include production of aquaculture, except oysters and clams.

AQUACULTURE

Aquaculture may be defined as the culture or husbandry of aquatic animals or plants by private industry for commercial purposes or by public agencies for augmenting natural stocks. With the passage of the National Aquaculture Act of 1980, Public Law 96-362, in September 1980, it is incumbent upon the Secretaries of Agriculture, Commerce and Interior, where appropriate, to undertake a continuing assessment of the United States aquaculture industry. The following table presents for the first time U.S. commercial aquaculture production of marine, brackish, and freshwater species. Information on freshwater species was obtained from the Department of Agriculture based on their 1980 catfish and trout survey.



U.S. AQUACULTURE PRODUCTION, BY SPECIES, 1979 AND 1980 (1)

Species	1979		1980	
	Thousands pounds	Thousands dollars	Thousand pounds	Thousand dollars
Fish:				
Catfish.	40,600	28,800	76,700	53,600
Salmon	2,400	900	7,600	3,400
Trout.	25,000	21,000	48,000	37,500
Shellfish:				
Oysters.	6,800	11,600	7,200	12,300
Clams.	8,900	5,400	9,100	5,600
Shrimp (prawns).	-	-	300	1,200
Total (2).	83,700	47,700	148,900	113,600

(1) Data shown are live weight harvest for consumption except for oysters and clams which are meat weight. Data for oysters and clams are included in commercial landings. Excluded are eggs, fingerlings, etc. which are an intermediate product level.

(2) These estimates do not include aquaculture production for all species such as abalone, mussels, striped bass, crawfish et al., which is estimated to be about 12.0 million pounds.

Note:--Data shown in this table contain estimates. Some species may not be shown to avoid disclosure of private enterprise.

GENERAL. The number of marine recreational fishermen has increased substantially in the last decade. Recent estimates indicate that there are 15-20 million recreational fishermen in the U.S. whose combined harvests account for approximately 30-35 percent of the total U.S. finfish harvest used for food. Expenditures by these fishermen for recreational fishing, the value of associated industries (such as tackle, boat and trailer manufacturers, and the party and charter boat industries), and the value of the recreational fishing experience itself are significant components of the U.S. economy.

DATA COLLECTION. Detailed statistical information on marine recreational fishing is required to support the objectives of the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA, PL 94-265). The MFCMA mandates preparation of management plans that promote domestic commercial and recreational fisheries, utilizing the best available biological, economic, and social information. Although reliable data on commercial fisheries have been collected for many years, the lack of a continuous or systematic collection of marine recreational fishery data has resulted in an inadequate data base.

Previous marine recreational fishing surveys have employed either a survey of fishermen at home (household survey) or a survey of fishermen at the fishing location (creel census or intercept survey.) The majority of these efforts covered limited geographic areas, were seasonal in nature or addressed specific fisheries. The most significant problems of these surveys related to the high cost of the surveys and the reliability of the results. For example, previous surveys required fishermen to recall information up to one year in the past. Biases introduced by the inability of fishermen to accurately recall the number and size of fish caught, and to correctly identify the species caught, raised questions regarding the reliability of the data. These questions together with other inadequacies in statistical design prompted the NMFS to examine ways of improving the survey design to provide more acceptable data.

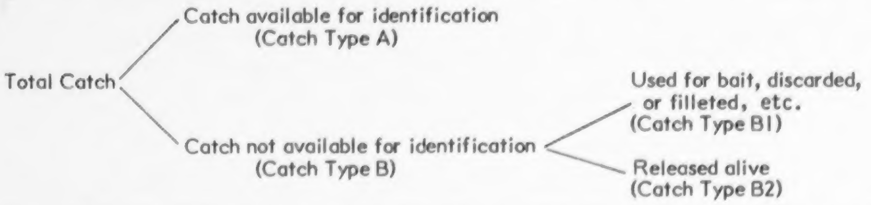
CURRENT APPROACH. An optimum survey design consisting of two independent survey techniques used in 1979 was the result of methodology studies conducted in 1976 and 1977. The chosen design utilized an intercept survey of fishermen and a telephone survey of households. Each technique provided certain information that when combined produced estimates of recreational catch, effort, and participation.

The first method of this "complemented" survey approach involved an on-site intercept survey in four fishing modes: beach/bank; party and charter boat; private and rental boat; and fishing from man-made structures. The allocation of interviews over time and by fishing mode was derived from the identification of all fishing sites in coastal counties by fishing activity. Interviews and examination of fishermen's catches were conducted after they had finished fishing or in some cases while they were still fishing. The type of data collected included fishing effort, catch, distribution of catch by species, weights, lengths, mode, and location of fishing.

The second method in the complemented surveys approach involved a telephone survey of households. In each coastal State all counties within a specified distance from the coast were included in the sample. The first eight digits of the telephone numbers called were obtained from a computerized data file of in-service residential numbers in each county; the last two digits were randomly generated. Calls were allocated by two-month periods and by county according to estimated fishing activity and population. The type of data collected included the number of fishermen, the number of trips, location of fishing, and mode of fishing for each trip. A two-month recall period was used for the telephone survey since beyond that time the respondents memory concerning dates and locations of trips was not sufficiently reliable. Fishermen were not asked detailed information about catch and effort because of the problem in identifying species caught and in recalling weights and lengths.

HOW DATA WAS COMBINED. The household survey collected data from residents with telephones in coastal counties. The intercept survey sample was similar but also included interviews with residents of non-telephone households and of non-coastal counties. During data processing, information collected in the household survey was combined with the intercept survey data to derive expanded estimates of the number of trips taken, the amount of finfish caught (number and weight), and the number of participants in fishing activities.

The estimate of the total number of fish caught in the survey includes: (1) those fish brought ashore in whole form which were available for identification, enumeration, weighing, and measuring by the interviewers (Catch Type A); (2) those fish used for bait, discarded dead, given away or brought ashore filleted or in some other dressed form (Catch Type B1); and (3) those fish released alive (Catch Type B2). In addition to estimating total catch, the survey provides an estimate for the components of total catch as shown in the following diagram.


Total Catch
Catch available for identification (Catch Type A)
Catch not available for identification (Catch Type B)
Used for bait, discarded, or filleted, etc. (Catch Type B1)
Released alive (Catch Type B2)

1979 RESULTS. The first year's survey from November 1978 to October 1979 included the Atlantic Coast, Gulf Coast, Caribbean area (Puerto Rico and the U.S. Virgin Islands) and the Western Pacific area (Hawaii, Guam, and American Samoa.) This survey was extended through December 1979 to cover the calendar year. The second year's survey covered calendar year 1980 and included the Atlantic Coast, Gulf Coast, and the Western Pacific area (including the Northern Mariana Islands.) A 1-year survey was started on the Pacific Coast in July 1979 and was later extended to December 1980 in order to coincide with other 1980 surveys. These surveys are planned to continue annually for the next several years.

The following data and tables are excerpted from the 1979 report "Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979." The part of the total catch brought ashore, weighed, and measured equaled 39.2 million pounds (Catch Type A). The part of the total catch representing fishing mortality equaled 346.8 million pounds and is the sum of Catch Type A and Catch Type B1 (307.6 million pounds). The estimated weight of the catch released alive (Catch Type B2) equaled 91.8 million pounds. The estimated grand total weight of 438.6 million pounds is the sum of Catch Type A, Catch Type B1, and Catch Type B2. Additional data such as State landings and fishing trips are included in the original document (CFS No. 8063; for ordering information see PUBLICATIONS section). Additional reports covering the Caribbean, Pacific, and Western Pacific survey regions are scheduled for publication in 1981.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
	Thousands				
Barracudas	-	(1)	358	38	418
Basses, sea	339	2,181	3,341	2,440	8,301
Bluefish	4,824	15,610	4,994	1,903	27,332
Blue runner	-	-	802	496	1,298
Bonito, Atlantic	34	333	69	142	578
Catfishes, sea	(1)	216	5,517	14,993	20,727
Catfishes, freshwater	(1)	154	-	198	375
Cod, Atlantic	2,602	(1)	-	-	2,627
Croaker, Atlantic	-	1,719	3,778	11,008	16,505
Cunner	2,083	1,253	-	-	3,335
Dolphins	-	(1)	2,766	54	2,828
Drum, black	-	(1)	415	2,245	2,665
Drum, red	-	-	520	3,593	4,113
Drums	-	(1)	154	381	538
Eel, American	113	172	47	43	375
Flounders, summer	571	12,653	988	1,882	16,095
Flounders, winter	12,448	10,107	-	-	22,554
Flounders	523	350	(1)	427	1,315
Groupers	-	-	537	880	1,417
Grunt, white	-	-	970	2,902	3,873
Grunts	-	(1)	3,187	1,546	4,733
Hakes	62	322	(1)	-	393
Herrings	800	240	2,927	2,142	6,109
Jack, crevalle	-	(1)	351	1,204	1,556
Jacks	-	51	852	907	1,810
Kingfishes	-	31	1,083	3,383	4,498
Ladyfish	-	-	105	761	866
Little tunny	-	(1)	200	326	546
Mackerel, Atlantic	2,172	1,870	-	-	4,043
Mackerel, king	-	(1)	393	598	994
Mackerel, Spanish	-	-	917	1,292	2,209
Mackerels and tunas	119	131	126	144	519
Mullets	-	(1)	3,198	5,205	8,414
Perch, sand	-	-	190	1,643	1,834
Perch, silver	-	(1)	271	1,622	1,906
Perch, white	143	5,284	67	-	5,494
Perch, yellow	-	322	-	-	322
Pigfish	-	(1)	456	1,521	1,992
Pinfish	(1)	(1)	3,720	9,070	12,811
Pollock	2,277	270	-	-	2,547
Porgies	215	2,883	347	159	3,604
Puffers	(1)	90	150	167	409
Scup	4,581	3,004	(1)	(1)	7,601
Searobins	475	2,499	655	128	3,757
Seatrout, sand	-	-	(1)	6,286	6,291
Seatrout, silver	-	(1)	534	179	723
Seatrout, spotted	-	410	1,511	13,506	15,426
Sharks	(1)	702	439	769	1,914
Sharks, dogfish	156	601	54	80	892
Sheepshead	-	-	1,106	1,861	2,967
Skates and rays	178	587	172	621	1,557
Smelts	644	-	-	-	644
Snapper, gray	-	-	660	1,088	1,748
Snapper, red	-	-	687	3,567	4,254
Snapper, vermilion	-	-	153	358	511
Snappers	-	(1)	2,209	620	2,850
Spadefish, Atlantic	-	-	(1)	451	462
Spot	-	8,708	8,840	932	18,480
Striped bass	185	948	47	(1)	1,181
Tautog	999	1,883	(1)	-	2,883
Toadfishes	(1)	815	295	202	1,313
Tomcod, Atlantic	833	(1)	-	-	849
Trigger and filefishes	(1)	37	364	506	910
Weakfish	59	4,234	124	-	4,417
Windowpane	91	377	-	-	468
Other fish	2,499	1,217	4,436	2,896	11,048
Total	40,064	82,452	66,135	109,372	298,023

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
	- - - - - - - -	- - - - - - - -	Thousands	- - - - - - - -	- - - - - - - -
Barracudas	-	(1)	109	-	131
Basses, sea	(1)	599	622	709	1,936
Bluefish	1,358	8,504	2,174	743	12,780
Blue runner	-	-	509	167	676
Bonito, Atlantic	(1)	82	(1)	48	158
Catfishes, sea	(1)	(1)	271	483	765
Catfishes, freshwater	(1)	66	-	83	149
Cod, Atlantic	468	(1)	-	-	492
Croaker, Atlantic	-	1,304	2,116	2,173	5,594
Cunner	59	68	-	-	127
Dolphins	-	(1)	915	36	953
Drum, black	-	(1)	254	1,487	1,743
Drum, red	-	-	449	1,479	1,927
Drums	-	(1)	(1)	60	87
Eel, American	(1)	76	(1)	(1)	96
Flounders, summer	332	6,915	655	1,108	9,011
Flounders, winter	3,957	4,419	-	-	8,377
Flounders	(1)	58	(1)	125	192
Groupers	-	-	214	321	535
Grunt, white	-	-	568	632	1,200
Grunts	-	-	978	150	1,128
Hakes	(1)	220	(1)	-	231
Herrings	(1)	(1)	(1)	(1)	66
Jack, crevalle	-	(1)	161	153	317
Jacks	-	(1)	402	139	543
Kingfishes	-	(1)	523	1,775	2,314
Ladyfish	-	-	33	(1)	42
Little tunny	-	(1)	92	96	205
Mackerel, Atlantic	626	1,538	-	-	2,163
Mackerel, king	-	(1)	176	399	578
Mackerel, Spanish	-	-	898	536	1,433
Mackerels and tunas	43	110	52	(1)	220
Mullets	-	-	1,306	1,861	3,167
Perch, sand	-	-	54	78	131
Perch, silver	-	(1)	126	249	380
Perch, white	47	2,201	(1)	-	2,267
Perch, yellow	-	87	-	-	87
Pigfish	-	(1)	86	365	466
Pinfish	(1)	(1)	1,000	896	1,916
Pollock	197	-	-	-	197
Porgies	(1)	1,226	283	(1)	1,522
Puffers	-	(1)	(1)	(1)	39
Scup	1,857	2,396	(1)	(1)	4,266
Searobins	(1)	54	(1)	-	81
Seatrout, sand	-	-	-	3,674	3,674
Seatrout, silver	-	(1)	223	59	292
Seatrout, spotted	-	328	843	5,432	6,603
Sharks	-	47	52	82	180
Sharks, dogfish	(1)	77	(1)	(1)	106
Sheepshead	-	-	835	925	1,760
Skates and rays	(1)	(1)	(1)	(1)	37
Smelts	339	-	-	-	339
Snapper, gray	-	-	292	590	882
Snapper, red	-	-	190	1,773	1,963
Snapper, vermilion	-	-	57	305	362
Snappers	-	(1)	494	(1)	524
Spadefish, Atlantic	-	-	(1)	179	184
Spot	-	2,443	3,974	264	6,680
Striped bass	43	487	(1)	(1)	540
Tautog	538	1,102	(1)	-	1,641
Toadfishes	-	(1)	(1)	-	(1)
Tomcod, Atlantic	707	(1)	-	-	712
Trigger and filefishes	-	(1)	79	393	476
Weakfish	(1)	3,039	115	-	3,166
Windowpane	(1)	33	-	-	57
Other fish	362	147	1,457	365	2,331
Total	11,069	37,836	23,811	30,497	103,213

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B1)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
			Thousands		
Barracudas	-	-	79	-	79
Basses, sea	146	247	1,306	512	2,211
Bluefish	2,924	5,333	2,152	314	10,723
Blue runner	-	-	199	(1)	214
Bonito, Atlantic	(1)	240	41	(1)	324
Catfishes, sea	-	(1)	639	2,104	2,755
Catfishes, freshwater	(1)	(1)	-	33	58
Cod, Atlantic	1,729	(1)	-	-	1,729
Croaker, Atlantic	-	225	629	3,272	4,127
Cunner	232	39	-	-	271
Dolphins	-	-	1,847	(1)	1,852
Drum, black	-	(1)	(1)	81	94
Drum, red	-	-	36	507	542
Drums	-	(1)	89	58	147
Eel, American	44	56	(1)	(1)	129
Flounders, summer	111	3,734	249	677	4,771
Flounders, winter	7,062	2,398	-	-	9,460
Flounders	424	264	(1)	147	840
Groupers	-	-	210	135	345
Grunt, white	-	-	122	962	1,084
Grunts	-	(1)	654	376	1,030
Hakes	(1)	100	-	-	121
Herrings	754	163	2,738	1,396	5,050
Jack, crevalle	-	-	(1)	223	239
Jacks	-	39	253	155	447
Kingfishes	-	(1)	277	526	811
Ladyfish	-	-	(1)	112	118
Little tunny	-	(1)	44	51	98
Mackerel, Atlantic	1,376	330	-	-	1,705
Mackerel, king	-	-	197	199	397
Mackerel, Spanish	-	-	(1)	660	674
Mackerels and tunas	58	(1)	55	(1)	155
Mullets	-	(1)	1,708	2,739	4,449
Perch, sand	-	-	79	546	625
Perch, silver	-	(1)	(1)	185	223
Perch, white	(1)	590	(1)	-	607
Perch, yellow	-	(1)	-	-	(1)
Pigfish	-	-	(1)	174	193
Pinfish	(1)	-	1,385	2,231	3,616
Pollock	830	270	-	-	1,100
Porgies	190	718	(1)	62	999
Puffers	-	-	(1)	(1)	(1)
Scup	1,588	266	-	-	1,854
Searobins	63	133	(1)	(1)	215
Seatrout, sand	-	-	-	937	937
Seatrout, silver	-	-	296	43	339
Seatrout, spotted	-	(1)	123	2,750	2,895
Sharks	-	230	82	236	548
Sharks, dogfish	89	68	(1)	32	192
Sheepshead	-	-	133	226	359
Skates and rays	(1)	(1)	(1)	(1)	95
Smelts	223	-	-	-	223
Snapper, gray	-	-	110	491	601
Snapper, red	-	-	417	1,168	1,585
Snapper, vermilion	-	-	(1)	(1)	37
Snappers	-	(1)	1,608	82	1,703
Spadefish, Atlantic	-	-	(1)	(1)	(1)
Spot	-	2,431	3,691	31	6,154
Striped bass	90	73	-	-	163
Tautog	269	528	-	-	797
Toadfishes	-	266	(1)	(1)	292
Tomcod, Atlantic	65	(1)	-	-	71
Trigger and filefishes	(1)	(1)	70	34	133
Weakfish	47	1,006	(1)	-	1,053
Windowpane	(1)	(1)	-	-	(1)
Other fish	1,659	801	2,198	558	5,215
Total	20,090	20,738	23,953	25,180	89,961

(1) Less than 30,000 reported; however, number is included in totals.

Note:--Catch Type B1 is an estimate of part of the total catch based on fish not available in whole form for interviewer's identification, as reported by fishermen. Included are those fish used as bait, filleted, given away, discarded dead, etc., excluding fish released alive. Table may not add because of rounding.

ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE B2)
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
	- - - - - - -	- - - - - - -	Thousands	- - - - - - -	- - - - - - -
Barracudas.	-	-	169	38	207
Basses, sea	186	1,336	1,413	1,219	4,154
Bluefish.	542	1,774	667	846	3,829
Blue runner	-	-	94	315	409
Bonito, Atlantic.	-	(1)	(1)	78	95
Catfishes, sea	-	193	4,607	12,406	17,207
Catfishes, freshwater . .	-	86	-	82	168
Cod, Atlantic	406	-	-	-	406
Croaker, Atlantic	-	190	1,032	5,562	6,784
Cunner.	1,792	1,146	-	-	2,938
Dolphins.	-	(1)	(1)	(1)	(1)
Drum, black	-	(1)	151	677	829
Drum, red	-	-	36	1,607	1,643
Drums	-	(1)	41	263	305
Eel, American	57	40	37	(1)	151
Flounders, summer	128	2,003	84	97	2,313
Flounders, winter	1,429	3,289	-	-	4,718
Flounders	94	(1)	(1)	155	284
Groupers.	-	-	113	424	538
Grunt, white.	-	-	280	1,308	1,589
Grunts.	-	-	1,555	1,020	2,575
Hakes	37	(1)	(1)	-	42
Herrings.	(1)	61	181	733	992
Jack, crevalle.	-	-	173	827	1,000
Jacks	-	(1)	198	613	820
Kingfishes.	-	(1)	283	1,082	1,373
Ladyfish.	-	-	66	640	706
Little tunny.	-	-	64	179	243
Mackerel, Atlantic. . . .	171	(1)	-	-	174
Mackerel, king.	-	-	(1)	-	(1)
Mackerel, Spanish	-	-	(1)	97	101
Mackerels and tunas . . .	(1)	(1)	(1)	107	144
Mullets	-	(1)	184	605	798
Perch, sand	-	-	58	1,020	1,077
Perch, silver	-	-	116	1,188	1,304
Perch, white.	86	2,493	41	-	2,619
Perch, yellow	-	216	-	-	216
Pigfish	-	-	352	981	1,333
Pinfish	-	-	1,335	5,944	7,279
Pollock	1,251	-	-	-	1,251
Porgies	(1)	939	35	86	1,083
Puffers	(1)	71	145	141	359
Scup.	1,135	342	-	(1)	1,481
Searobins	394	2,313	626	127	3,460
Seatrout, sand.	-	-	(1)	1,675	1,681
Seatrout, silver.	-	-	(1)	77	91
Seatrout, spotted	-	59	545	5,324	5,929
Sharks.	(1)	426	305	452	1,186
Sharks, dogfish	63	456	(1)	46	593
Sheepshead.	-	-	138	710	848
Skates and rays	145	559	129	593	1,426
Smelts.	81	-	-	-	81
Snapper, gray	-	-	258	(1)	265
Snapper, red.	-	-	80	626	706
Snapper, vermilion. . . .	-	-	79	32	111
Snappers.	-	(1)	106	511	623
Spadefish, Atlantic . . .	-	-	(1)	248	250
Spot.	-	3,834	1,175	637	5,645
Striped bass.	52	387	38	-	478
Tautog.	192	252	-	-	445
Toadfishes.	(1)	541	262	201	1,004
Tomcod, Atlantic.	61	(1)	-	-	66
Trigger and filefishes. .	-	(1)	215	79	300
Weakfish.	-	188	(1)	-	198
Windowpane.	61	322	-	-	383
Other fish.	478	269	782	1,974	3,502
Total.	8,905	23,879	18,370	53,694	104,848

(1) Less than 30,000 reported; however, number is included in totals.

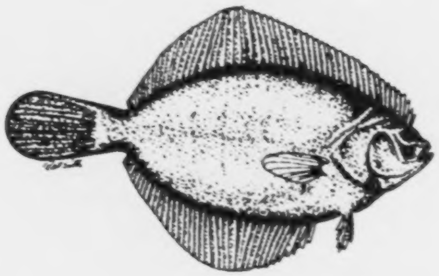
Note:--Catch Type B2 is an estimate of part of the total catch based on fish released alive, as reported by the fishermen. Table may not add because of rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
			Thousands		
NORTH ATLANTIC					
Man-made.	-	1,564	3,428	9	5,001
Beach/bank.	-	702	1,587	8	2,297
Party/charter	1,786	341	502	-	2,629
Private/rental.	5,758	4,905	19,475	-	30,137
Total.	7,543	7,512	24,992	17	40,064
MID-ATLANTIC					
Man-made.	-	2,501	4,581	2,731	9,813
Beach/bank.	-	3,269	2,035	658	5,962
Party charter	5,305	1,463	2,664	-	9,431
Private/rental.	4,710	5,945	44,440	2,152	57,247
Total.	10,015	13,178	53,719	5,541	82,452
SOUTH ATLANTIC					
Man-made.	-	13,404	3,210	3,512	20,127
Beach/bank.	-	6,143	927	3,829	10,899
Party/charter	1,130	577	30	-	1,737
Private/rental.	11,275	5,579	11,619	4,900	33,372
Total.	12,404	25,702	15,787	12,241	66,135
GULF					
Man-made.	-	9,000	2,173	9,492	20,665
Beach/bank.	-	4,536	7,050	1,567	13,153
Party/charter	1,981	-	611	1,880	4,472
Private/rental.	13,756	7,428	33,966	15,931	71,081
Total.	15,737	20,964	43,800	28,871	109,372

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Table may not add because of rounding.

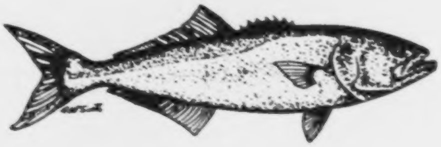


ESTIMATED NUMBER OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
	Thousands				
NORTH ATLANTIC					
Man-made.	-	545	1,680	6	2,232
Beach/bank.	-	205	532	8	745
Party/charter	265	33	112	-	410
Private/rental.	723	1,324	5,636	-	7,683
Total.	988	2,107	7,960	14	11,069
MID-ATLANTIC					
Man-made.	-	1,062	1,548	1,072	3,681
Beach/bank.	-	2,060	726	413	3,199
Party charter	3,078	774	741	-	4,593
Private/rental.	3,173	3,301	18,193	1,696	26,362
Total.	6,251	7,196	21,208	3,180	37,836
SOUTH ATLANTIC					
Man-made.	-	4,361	1,412	1,789	7,562
Beach/bank.	-	2,171	243	1,380	3,794
Party/charter	653	380	14	-	1,047
Private/rental.	2,798	2,355	4,550	1,707	11,409
Total.	3,451	9,267	6,218	4,876	23,811
GULF					
Man-made.	-	1,211	708	2,810	4,728
Beach/bank.	-	1,081	1,612	472	3,165
Party/charter	258	-	168	1,821	2,246
Private/rental.	4,382	1,945	9,775	4,256	20,358
Total.	4,640	4,237	12,262	9,358	30,497

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.



ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A),
BY MARINE RECREATIONAL FISHERMEN, BY SPECIES GROUP AND SUBREGION, 1979

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf	All regions
	Thousand kilograms				
Barracudas	-	(1)	267	-	275
Basses, sea	(1)	172	271	101	548
Bluefish	1,937	16,314	3,055	473	21,781
Blue runner	-	-	308	108	415
Bonito, Atlantic	(1)	188	(1)	101	389
Catfishes, sea	(1)	(1)	137	324	466
Catfishes, freshwater	(1)	50	-	39	89
Cod, Atlantic	686	(1)	-	-	728
Croaker, Atlantic	-	711	411	564	1,685
Cunner	14	7	-	-	21
Dolphins	-	(1)	2,127	165	2,297
Drum, black	-	(1)	322	1,187	1,528
Drum, red	-	-	469	1,319	1,788
Drums	-	(1)	(1)	109	137
Eel, American	(1)	31	(1)	(1)	43
Flounders, summer	281	5,355	358	549	6,543
Flounders, winter	1,803	2,006	-	-	3,809
Flounders	(1)	37	(1)	40	82
Groupers	-	-	500	1,930	2,430
Grunt, white	-	-	140	238	378
Grunts	-	-	324	25	349
Hakes	(1)	124	(1)	-	129
Herrings	(1)	(1)	(1)	(1)	14
Jack, crevalle	-	(1)	66	940	1,006
Jacks	-	(1)	320	446	767
Kingfishes	-	(1)	130	322	456
Ladyfish	-	-	27	(1)	34
Little tunny	-	(1)	401	188	673
Mackerel, Atlantic	548	1,163	-	-	1,711
Mackerel, king	-	(1)	865	1,799	2,676
Mackerel, Spanish	-	-	954	460	1,414
Mackerels and tunas	655	1,156	240	(1)	2,125
Mullets	-	-	612	978	1,590
Perch, sand	-	-	16	13	29
Perch, silver	-	(1)	29	22	51
Perch, white	6	467	(1)	-	473
Perch, yellow	-	17	-	-	17
Pigfish	-	(1)	12	56	71
Pinfish	(1)	(1)	177	90	271
Pollock	248	-	-	-	248
Porgies	(1)	310	170	(1)	486
Puffers	-	(1)	(1)	(1)	7
Scup	698	1,017	(1)	(1)	1,722
Searobins	(1)	17	(1)	-	24
Seatrout, sand	-	-	-	1,333	1,333
Seatrout, silver	-	(1)	99	10	126
Seatrout, spotted	-	440	539	3,031	4,010
Sharks	-	3,477	86	385	3,949
Sharks, dogfish	(1)	77	(1)	(1)	101
Sheepshead	-	-	787	741	1,527
Skates and rays	(1)	(1)	(1)	(1)	26
Smelts	76	-	-	-	76
Snapper, gray	-	-	158	425	582
Snapper, red	-	-	143	1,220	1,362
Snapper, vermilion	-	-	7	42	49
Snappers	-	(1)	251	(1)	256
Spadefish, Atlantic	-	-	(1)	25	28
Spot	-	425	514	30	968
Striped bass	266	870	(1)	(1)	1,144
Tautog	583	952	(1)	-	1,535
Toadfishes	-	(1)	(1)	-	(1)
Tomcod, Atlantic	132	(1)	-	-	135
Trigger and filefishes	-	(1)	73	303	381
Weakfish	(1)	3,446	95	-	3,574
Windowpane	(1)	15	-	-	19
Other fish	190	497	760	1,920	3,367
Total	8,214	39,576	16,391	22,155	86,336

(1) Less than 30,000 reported; however, numbers are included in totals.

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

ESTIMATED WEIGHT OF FISH CAUGHT (CATCH TYPE A) BY MARINE RECREATIONAL FISHERMEN, BY AREA OF FISHING AND MODE OF FISHING FOR EACH SUBREGION, 1979

Mode and subregion	Ocean More than 3 mi.	Ocean 3 mi. or less	Inland	Unknown (1)	All areas
			Thousand kilograms		
NORTH ATLANTIC					
Man-made.	-	194	373	2	570
Beach/bank.	-	207	152	5	364
Party/charter	537	179	84	-	801
Private/rental.	1,826	1,204	3,450	-	6,480
Total.	2,363	1,784	4,060	7	8,214
MID-ATLANTIC					
Man-made.	-	379	523	241	1,143
Beach/bank.	-	1,796	291	305	2,392
Party charter	9,488	1,518	1,006	-	12,011
Private/rental.	8,420	3,508	11,137	966	24,030
Total.	17,908	7,201	12,956	1,511	39,576
SOUTH ATLANTIC					
Man-made.	-	1,239	535	791	2,566
Beach/bank.	-	667	148	746	1,561
Party/charter	476	583	4	-	1,063
Private/rental.	6,361	2,160	1,638	1,042	11,202
Total.	6,837	4,650	2,325	2,579	16,391
GULF					
Man-made.	-	888	190	1,148	2,226
Beach/bank.	-	432	644	161	1,236
Party/charter	244	-	69	1,391	1,703
Private/rental.	7,384	1,122	5,359	3,124	16,989
Total.	7,628	2,441	6,262	5,824	22,155

(1) This category includes "missing data" on area, and local variation in marine geographic terminology which sometimes prevented interviewers from determining acceptable answers to questions on "distance from shore."

Note:--Catch Type A is an estimate of part of the total catch based on fish brought ashore in whole form, available for interviewer identification and enumeration, from which samples of lengths and weights were obtained. Table may not add because of rounding.

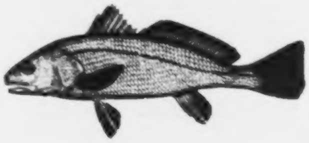
ESTIMATED NUMBER OF PARTICIPANTS IN MARINE RECREATIONAL FISHING, BY STATE AND SUBREGION, FOR THE ATLANTIC AND GULF COASTS, 1979

Subregion	Coastal participants	Non-coastal participants	Out of State (1)	Participants in State (1)
	Thousands			
NORTH ATLANTIC				
Connecticut	304	-	78	382
Maine	99	9	76	185
Massachusetts	454	47	275	776
New Hampshire	33	17	169	219
Rhode Island	167	-	263	430
Total	1,058	73		
MID-ATLANTIC				
Delaware	36	-	88	124
Maryland	595	34	284	913
New Jersey	644	18	310	972
New York	1,059	29	263	1,351
Virginia	384	35	470	889
Total	2,718	116		
SOUTH ATLANTIC				
Florida	1,071	(2)	754	1,826
Georgia	61	23	19	103
North Carolina	173	468	322	963
South Carlina	117	53	190	360
Total	1,422	544		
GULF				
Alabama	106	41	57	204
Florida	1,243	5	898	2,146
Louisiana	489	23	46	558
Mississippi	88	15	52	155
Texas	959	254	107	1,319
Total	2,885	338		
Grand total	8,083	1,070		

(1) Column does not add - one person can be counted as "out of State" for more than one State.

(2) Less than 500 participants.

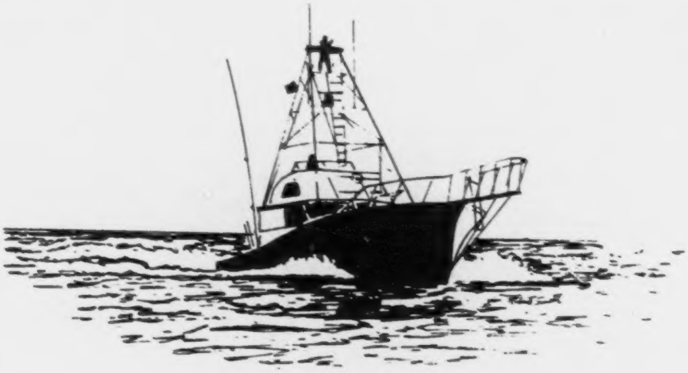
Note:--Table may not add because of rounding.



ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN,
BY MODE OF FISHING AND SUBREGION, 1979

Mode and subregion	Trips by coastal residents	Trips by non-coastal residents	Trips by out of state residents	All trips
	Thousands			
NORTH ATLANTIC				
Man-made	921	55	448	1,425
Beach/bank	892	27	335	1,254
Party/charter	285	40	208	533
Private/rental	2,715	94	962	3,771
Total	4,813	217	1,953	6,983
MID-ATLANTIC				
Man-made	2,149	88	394	2,631
Beach/bank	1,530	16	771	2,317
Party charter	1,242	48	501	1,790
Private/rental	9,536	239	1,919	11,694
Total	14,457	392	3,584	18,433
SOUTH ATLANTIC				
Man-made	2,503	577	896	3,977
Beach/bank	1,219	802	1,140	3,161
Party/charter	329	21	319	668
Private/rental	4,726	515	725	5,966
Total	8,777	1,915	3,080	13,771
GULF				
Man-made	4,011	204	804	5,019
Beach/bank	2,712	97	690	3,499
Party/charter	484	105	341	930
Private/rental	8,625	550	959	10,134
Total	15,832	956	2,794	19,581
Grand totals	43,879	3,479	11,410	58,768

Note:--Table may not add because of rounding.



ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY COUNTRY AND AREA, 1979
(Preliminary)

Country and area	North Atlantic (1)	California, Oregon, and Washington	Alaska			Hawaii and Pacific Islands	Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska		
	Metric tons, round weight						
North America:							
Canada	25,414.0	-	1,085.9	-	1,085.9	-	26,499.9
Mexico	8,085.2	-	10,396.3	-	10,396.3	-	18,481.5
Europe:							
EEC:							
Ireland	207.3	-	-	-	-	-	207.3
Italy	6,690.1	-	-	-	-	-	6,690.1
Poland	171.5	18,621.3	19,744.5	18,283.5	38,028.0	-	56,820.8
Romania	28.5	-	-	-	-	-	28.5
Spain	11,540.6	-	-	-	-	-	11,540.6
USSR	4,256.6	98,707.2	31,046.4	150,775.9	181,822.3	-	284,786.1
Asia:							
China, Taiwan	-	-	-	2,013.3	2,013.3	-	2,013.3
Japan	7,711.7	-	72,223.4	1,034,695.7	1,106,919.1	217.8	1,114,848.6
Republic of Korea	-	-	29,936.7	98,065.7	128,002.4	-	128,002.4
Grand total	64,105.5	117,328.5	164,433.2	1,303,834.1	1,468,267.3	217.8	1,649,919.1

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon, caught incidentally to other species, and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone."

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY COUNTRY AND AREA, 1980
(Preliminary)

Country and area	North Atlantic (1)	California, Oregon, and Washington	Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	Hawaii and Pacific Islands	Grand total
	Metric tons, round weight						
North America:							
Canada	28,479.0	-	1,177.6	-	1,177.6	-	29,656.6
Cuba	389.6	-	-	-	-	-	389.6
Mexico	4,696.9	-	-	-	-	-	4,696.9
Europe:							
European Economic Community:							
Federal Republic of Germany	-	-	-	6,729.5	6,729.5	-	6,729.5
Italy	9,445.4	-	-	-	-	-	9,445.4
Other:							
Faroe Island	1.3	-	-	-	-	-	1.3
Poland	338.3	46,928.1	13,274.4	48,093.4	61,367.8	-	108,634.2
Romania	77.7	-	-	-	-	-	77.7
Spain	17,521.1	-	-	-	-	-	17,521.1
USSR	-	-	54,603.0	3,556.7	58,159.7	-	58,159.7
Asia:							
China, Taiwan	-	-	-	5,508.0	5,508.0	-	5,508.0
Japan	10,765.1	-	107,973.1	1,060,690.0	1,168,663.1	795.2	1,180,223.4
Republic of Korea	-	-	32,388.2	177,589.1	209,977.3	-	209,977.3
Grand total	71,714.4	46,928.1	209,416.3	1,302,166.7	1,511,583.0	795.2	1,631,020.7

(1) Cape Hatteras northward.

Note:--Excludes tunas. Also excludes salmon caught incidentally to other species and returned to sea. Beginning June 4, 1978, Canadian authorities excluded almost all United States fishing vessels from Canadian waters, and United States authorities excluded almost all Canadian fishing vessels from United States waters. In the Pacific, halibut fishing continued under the United States-Canada Halibut Convention. In a 1979 groundfish agreement, Canada, in return for the right to catch a specified amount of halibut in the United States FCZ, granted United States fishermen the right to catch a specified amount of groundfish in the Canadian fishery zone. In the Atlantic, fishing continued by vessels of both nations in a boundary region often referred to as the "disputed zone." Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1979
(Preliminary)

Item	North Atlantic (1)	Washington, Oregon, and California	Alaska: Gulf of Alaska	Alaska: Eastern Bering Sea and Aleutian Islands	Alaska: Total Alaska	Hawaii and Pacific Islands	Total
	Metric tons, round weight						
Finfish							
Alfonsins and armorheads.	-	-	-	-	-	217.8	217.8
Atka mackerel	-	-	10,947.7	23,264.0	34,211.7	-	34,211.7
Butterfish.	844.4	-	-	-	-	-	844.4
Cod:							
Atlantic.	6,390.0	-	-	-	-	-	6,390.0
Pacific	-	-	13,174.2	41,416.6	54,590.8	-	54,590.8
Flounders:							
Atlantic.	89.0	-	-	-	-	-	89.0
Yellowfin sole.	-	-	-	101,108.4	101,108.4	-	101,108.4
Pacific, other.	-	14.2	13,474.5	89,945.3	103,419.8	-	103,434.0
Haddock	5,439.0	-	-	-	-	-	5,439.0
Hake:							
Atlantic:							
Red	976.9	-	-	-	-	-	976.9
Silver (whiting). . .	4,882.1	-	-	-	-	-	4,882.1
Pacific (whiting) . . .	-	114,909.3	-	-	-	-	114,909.3
Halibut	-	-	1,085.9	-	1,085.9	-	1,085.9
Herring, river (alewives)	11.9	-	-	-	-	-	11.9
Herring, sea, Pacific . .	-	-	-	7,533.3	7,533.3	-	7,533.3
Jack mackerel	-	1,026.0	-	-	-	-	1,026.0
Mackerel, Atlantic. . . .	64.5	-	-	-	-	-	64.5
Ocean perch:							
Atlantic (redfish). . .	26.0	-	-	-	-	-	26.0
Pacific	-	54.1	9,749.6	7,209.0	16,958.6	-	17,012.7
Pollock:							
Atlantic.	3,032.0	-	-	-	-	-	3,032.0
Alaska.	-	-	103,187.1	943,963.2	1,047,150.3	-	1,047,150.3
Rockfishes, Pacific, other	-	938.7	1,423.0	-	1,423.0	-	2,361.7
Sablefish	-	198.4	6,884.5	2,170.8	9,055.3	-	9,253.7
Other finfish	3,296.3	187.8	4,081.2	64,715.2	68,796.4	-	72,280.5
Total fish	25,052.1	117,328.5	164,007.7	1,281,325.8	1,445,333.5	217.8	1,587,931.9
Shellfish et al.							
Crabs, snow (tanner). . .	-	-	-	14,953.5	14,953.5	-	14,953.5
Lobster, American	240.0	-	-	-	-	-	240.0
Scallops, sea	9,204.0	-	-	-	-	-	9,204.0
Snails (meats).	-	-	-	537.2	537.2	-	537.2
Squid:							
Atlantic:							
Short-finned.	16,426.4	-	-	-	-	-	16,426.4
Long-finned	13,183.0	-	-	-	-	-	13,183.0
Pacific	-	-	425.5	7,017.6	7,443.1	-	7,443.1
Total shellfish . .	39,053.4	-	425.5	22,508.3	22,933.8	-	61,987.2
Grand total	64,105.5	117,328.5	164,433.2	1,303,834.1	1,468,267.3	217.8	1,649,919.1

(1) Cape Hatteras northward. Note:--Excludes tunas. See note on page 26.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

ALL FOREIGN COUNTRIES: CATCH IN THE U.S.-FISHERY CONSERVATION ZONE (FCZ), BY SPECIES AND AREA, 1980
(Preliminary)

Item	North Atlantic (1)	Washington, Oregon, and California	Alaska			Hawaii and Pacific Islands	Total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska		
	Metric tons, round weight						
Finfish							
Alfonsins and armorheads. .	-	-	-	-	-	795.2	795.2
Atka mackerel	-	-	13,162.4	20,224.7	33,387.1	-	33,387.1
Butterfish.	883.7	-	-	-	-	-	883.7
Cod:							
Atlantic.	6,665.0	-	-	-	-	-	6,665.0
Pacific	-	-	34,243.5	37,318.9	71,562.4	-	71,562.4
Flounders:							
Atlantic.	204.0	-	-	-	-	-	204.0
Yellowfin sole.	-	-	-	77,768.0	77,768.0	-	77,768.0
Pacific, other.	-	2.1	15,496.0	88,529.2	104,025.2	-	104,027.3
Haddock	9,755.0	-	-	-	-	-	9,755.0
Hake:							
Atlantic:							
Red	155.2	-	-	-	-	-	155.2
Silver (whiting). . . .	1,696.7	-	-	-	-	-	1,696.7
Pacific (whiting)	-	44,022.9	-	-	-	-	44,022.9
Halibut	-	-	1,177.6	-	1,177.6	-	1,177.6
Herring, river (alewives) .	24.6	-	-	-	-	-	24.6
Herring, sea, Pacific (2) .	-	-	-	782.6	782.6	-	782.6
Jack mackerel	-	1,724.8	-	-	-	-	1,724.8
Mackerel, Atlantic.	382.7	-	-	-	-	-	382.7
Ocean perch:							
Atlantic.	98.0	-	-	-	-	-	98.0
Pacific	-	32.4	12,446.9	4,917.0	17,363.9	-	17,396.3
Pollock:							
Atlantic.	5,474.0	-	-	-	-	-	5,474.0
Alaska.	-	-	112,996.0	1,006,129.5	1,119,125.5	-	1,119,125.5
Rockfishes, Pacific, other.	-	958.1	4,199.6	3,551.0	7,750.6	-	8,708.7
Sablefish	-	92.8	6,138.8	2,438.0	8,576.8	-	8,669.6
Other finfish	2,818.5	95.0	8,714.4	46,982.3	55,696.7	-	58,610.2
Total fish	28,157.4	46,928.1	208,575.2	1,288,641.2	1,497,216.4	795.2	1,573,097.1
Shellfish et al.							
Crabs, snow (tanner). . . .	-	-	-	7,094.4	7,094.4	-	7,094.4
Lobster, American	194.0	-	-	-	-	-	194.0
Scallops, sea	5,239.0	-	-	-	-	-	5,239.0
Snails (meats).	-	-	-	57.3	57.3	-	57.3
Squid:							
Atlantic:							
Short-finned.	17,724.9	-	-	-	-	-	17,724.9
Long-finned	20,399.1	-	-	-	-	-	20,399.1
Pacific	-	-	841.1	6,373.8	7,214.9	-	7,214.9
Total shellfish . . .	43,557.0	-	841.1	13,525.5	14,366.6	-	57,923.6
Grand total	71,714.4	46,928.1	209,416.3	1,302,166.7	1,511,583.0	795.2	1,631,020.7

(1) Cape Hatteras northward. (2) Harvested between Jan. 1 and Feb. 8, 1980, and then declared a prohibited species.
Note:--Excludes tunas. See note on page 26.

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1978-80
(Preliminary)

Country and species	1978	1979	1980
	Metric tons, round weight		
Bulgaria:			
Hake, silver (whiting)	0.2	-	-
Mackerel, Atlantic	11.0	-	-
Total	11.2	-	-
Canada: (1)			
Cod, Atlantic	9,503.0	6,390.0	6,665.0
Flounders (including yellowtail)	58.0	15.0	74.0
Flounders, other	292.0	74.0	130.0
Haddock	10,657.0	5,439.0	9,755.0
Ocean perch, Atlantic	92.0	26.0	98.0
Pollock, Atlantic	4,756.0	3,032.0	5,474.0
Other finfish	937.0	994.0	850.0
Lobster, American	269.0	240.0	194.0
Scallops, sea (meats)	12,123.0	9,204.0	5,239.0
Total	38,687.0	25,414.0	28,479.0
Cuba:			
Butterfish	-	-	9.0
Hake:			
Red	-	-	14.0
Silver (whiting)	-	-	72.8
Herring, river (alewives)	-	-	23.7
Mackerel, Atlantic	-	-	234.8
Other finfish	-	-	34.4
Squid, long-finned	-	-	.9
Total	-	-	389.6
European Economic Community:			
Ireland:			
Other finfish	-	.1	-
Squid, short-finned	-	207.2	-
Total	-	207.3	-
Italy:			
Butterfish	354.0	137.5	73.1
Hake:			
Red	50.0	188.3	42.3
Silver (whiting)	612.0	600.1	501.9
Mackerel, Atlantic	65.0	28.4	26.8
Other finfish	695.0	600.6	724.1
Squid:			
Short-finned	2,131.0	3,070.3	5,123.1
Long-finned	1,366.0	2,064.9	2,954.1
Total	5,273.0	6,690.1	9,445.4
Faroe Islands, Other finfish, total	-	-	1.3
Japan:			
Butterfish	651.2	270.7	660.3
Hake:			
Red	8.7	12.8	37.4
Silver (whiting)	274.5	701.3	606.3
Herring, river (alewives)	1.6	-	.1
Mackerel, Atlantic	8.6	9.2	88.4
Other finfish	137.1	321.8	618.6
Squid:			
Short-finned	3,744.0	3,211.8	2,207.0
Long-finned	2,309.2	3,184.1	6,547.0
Total	7,134.9	7,711.7	10,765.1

See footnote at end of table.

(Continued on next page)

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1978-80 - Continued
(Preliminary)

Country and species	1978	1979	1980
	- - - - - - - - Metric tons, round weight	- - - - - - - -	
Mexico:			
Butterfish	93.0	342.6	72.2
Hake:			
Red	1.0	40.2	12.2
Silver (whiting)	4.0	110.1	39.3
Herring, river (alewives)	-	.4	.2
Mackerel, Atlantic	1.0	11.7	5.7
Other finfish	33.0	467.4	104.1
Squid:			
Short-finned	2,769.0	3,539.5	1,275.8
Long-finned	1,053.0	3,573.3	3,187.4
Total	3,954.0	8,085.2	4,696.9
Poland:			
Butterfish	-	-	3.2
Hake, silver (whiting)	-	-	.5
Mackerel, Atlantic	-	-	9.1
Other finfish	-	-	41.1
Squid:			
Short-finned	-	171.5	281.4
Long-finned	-	-	3.0
Total	-	171.5	338.3
Romania:			
Butterfish	56.0	1.7	2.3
Hake:			
Red	-	.1	.6
Silver (whiting)	20.0	15.5	.1
Mackerel, Atlantic	10.0		.5
Other finfish	22.0	7.6	18.2
Squid:			
Short-finned	50.0	.7	56.0
Long-finned	17.0	2.9	-
Total	175.0	28.5	77.7
Spain:			
Butterfish	156.0	89.5	63.6
Hake:			
Red	3.0	65.3	48.7
Silver (whiting)	53.0	380.3	475.8
Herring, river (alewives)	8.0	-	.6
Mackerel, Atlantic	28.0	5.1	17.4
Other finfish	265.5	425.2	426.7
Squid:			
Short-finned	8,583.0	6,225.3	8,781.6
Long-finned	4,603.4	4,349.9	7,706.7
Total	13,699.9	11,540.6	17,521.1
USSR:			
Butterfish	14.0	2.4	-
Hake:			
Red	2,073.3	670.2	-
Silver (whiting)	13,390.1	3,074.8	-
Herring, river (alewives)	20.3	11.5	-
Mackerel, Atlantic	206.0	10.1	-
Other finfish	2,208.1	479.6	-
Squid:			
Short-finned	33.4	.1	-
Long-finned	7.0	7.9	-
Total	17,952.2	4,256.6	-
Grand total	86,887.2	64,105.5	71,714.4

(1) See note on page 26. Note:--Excludes tunas.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1978-80

(Preliminary)

Country and species	1978	1979	1980
	Metric tons, round weight		
Canada:			
Rockfishes	0.5	-	-
Total	.5	-	-
Poland:			
Flounders	2.0	2.0	2.1
Hake, Pacific (whiting)	26,721.1	18,072.5	44,022.9
Jack mackerel	214.2	315.9	1,724.8
Ocean perch, Pacific	-	8.3	32,4
Rockfishes	204.3	149.2	958.1
Sablefish	41.0	41.4	92.8
Other finfish	68.5	32.0	95.0
Total	27,251.1	18,621.3	46,928.1
USSR:			
Flounders	1.8	12.2	-
Hake, Pacific (whiting)	70,106.0	96,836.8	-
Jack mackerel	672.6	710.1	-
Ocean perch, Pacific	-	45.8	-
Rockfishes	499.5	789.5	-
Sablefish	57.1	157.0	-
Other finfish	94.2	155.8	-
Total	71,431.2	98,707.2	-
Grand total	98,682.8	117,328.5	46,928.1

See note on page 26.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1978-80
(Preliminary)

Country and species	1978	1979	1980
	Metric tons, round weight		
Canada			
Halibut	2,533.3	1,085.9	1,177.6
Total	2,533.3	1,085.9	1,177.6
Japan:			
Atka mackerel	1,135.7	566.9	1,895.9
Cod, Pacific	8,845.8	10,429.2	30,581.1
Flounders (1)	13,809.4	12,369.5	11,923.5
Ocean perch, Pacific	4,547.6	7,397.4	10,769.7
Pollock, Alaska	26,093.0	31,919.6	37,897.4
Rockfishes	1,277.2	1,092.0	4,002.1
Sablefish	6,458.3	5,919.1	4,831.3
Other finfish	3,919.1	2,270.6	5,374.9
Squid, unclassified	185.8	259.1	697.2
Total	66,271.9	72,223.4	107,973.1
Mexico:			
Atka mackerel	-	36.3	-
Cod, Pacific	-	939.3	-
Flounders (1)	-	113.1	-
Ocean perch, Pacific	-	457.0	-
Pollock, Alaska	-	8,676.9	-
Rockfishes	-	5.6	-
Sablefish	-	54.7	-
Other finfish	-	100.8	-
Squid, unclassified	-	12.6	-
Total	-	10,396.3	-
Poland:			
Atka mackerel	-	.4	56.9
Cod, Pacific	13.6	126.9	54.3
Flounders (1)	12.6	18.9	.2
Ocean perch, Pacific	3.5	5.3	29.8
Pollock, Alaska	1,226.5	19,551.2	13,085.0
Rockfishes	8.8	18.7	3.7
Other finfish	-	14.0	44.4
Squid, unclassified	1.0	9.1	.1
Total	1,266.0	19,744.5	13,274.4
Republic of Korea:			
Atka mackerel	63.0	80.5	736.1
Cod, Pacific	1,369.0	844.1	1,665.8
Flounders (1)	295.5	604.4	1,733.8
Ocean perch, Pacific	3,048.7	824.9	408.2
Pollock, Alaska	27,051.9	25,738.8	25,012.8
Rockfishes	608.7	184.9	184.0
Sablefish	664.8	758.6	891.5
Other finfish	1,686.6	757.1	1,649.0
Squid, unclassified	132.7	143.4	107.0
Total	34,920.9	29,936.7	32,388.2

(Continued)

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1978-80 - Continued
(Preliminary)

Country and species	1978	1979	1980
	Metric tons, round weight		
USSR:			
Atka mackerel	18,386.5	10,263.6	10,473.5
Cod, Pacific	1,140.1	834.7	1,942.3
Flounders (1)	196.4	368.6	1,838.5
Ocean perch, Pacific	569.5	1,065.0	1,239.2
Pollock, Alaska	41,955.9	17,300.6	37,000.8
Rockfishes	1.2	121.8	9.8
Sablefish	4.0	152.1	416.0
Other finfish	381.1	938.7	1,646.1
Squid, unclassified	1.6	1.3	36.8
Total	62,636.3	31,046.4	54,603.0
Grand total	167,628.4	164,433.2	209,416.3

(1) May include yellowfin sole. See note on page 26.

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH BY COUNTRY AND BY SPECIES, 1978-80

(Preliminary)

Country and species	1978	1979	1980
	Metric tons, round weight		
Canada			
Halibut	88.7	-	-
European Economic Community, Federal Republic of Germany:			
Atka mackerel	-	-	42.2
Cod, Pacific	-	-	552.5
Flounders, unclassified	-	-	15.4
Ocean perch, Pacific	-	-	14.8
Pollock, Alaska	-	-	5,996.3
Rockfishes	-	-	.3
Sablefish	-	-	15.9
Other finfish	-	-	38.8
Squid, unclassified	-	-	53.3
Total	-	-	6,729.5
China, Taiwan:			
Atka mackerel	.3	-	-
Cod, Pacific	70.4	39.4	199.7
Flounders:			
Yellowfin sole	1.4	3.0	35.1
Other	68.3	19.2	126.2
Herring, sea	-	-	.5
Ocean perch, Pacific	6.6	2.6	17.7
Pollock, Alaska	3,039.9	1,928.6	4,973.7
Rockfishes	-	-	9.3
Sablefish	5.2	6.3	38.4
Other finfish	-	-	68.5
Squid, unclassified	35.0	14.2	38.9
Total	3,227.1	2,013.3	5,508.0
Japan:			
Atka mackerel	1,531.0	1,656.2	1,718.7
Cod, Pacific	45,015.0	35,470.3	29,524.0
Flounders:			
Yellowfin sole	59,737.3	58,491.0	61,295.0
Other	87,785.9	75,824.7	74,150.7
Herring, sea	2,315.3	1,707.9	329.2
Ocean perch, Pacific	6,776.0	6,900.8	4,102.7
Pollock, Alaska	821,306.5	779,049.9	832,992.6
Rockfishes	-	-	3,024.0
Sablefish	1,805.2	1,687.9	1,881.8
Other finfish	58,040.7	52,676.9	39,877.8
Crabs, snow (tanner)	14,961.9	14,953.5	7,094.4
Snails (meats)	2,184.4	537.2	57.3
Squid, unclassified	9,138.3	5,739.4	4,641.8
Total	1,110,597.5	1,034,695.7	1,060,690.0
Poland:			
Atka mackerel	-	1.5	43.9
Cod, Pacific	-	16.5	627.5
Flounders:			
Yellowfin sole	-	-	233.6
Other	-	1.5	610.5
Herring, sea	-	-	2.0
Ocean perch, Pacific	-	1.9	37.2
Pollock, Alaska	-	18,229.9	46,145.9
Rockfishes	-	-	22.8
Sablefish	-	1.8	152.2
Other finfish	-	5.8	198.3
Squid, unclassified	-	24.6	19.5
Total	-	18,283.5	48,093.4

(Continued)

U.S. FISHERY CONSERVATION ZONE

FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH
BY COUNTRY AND BY SPECIES, 1978-80 - Continued
(Preliminary)

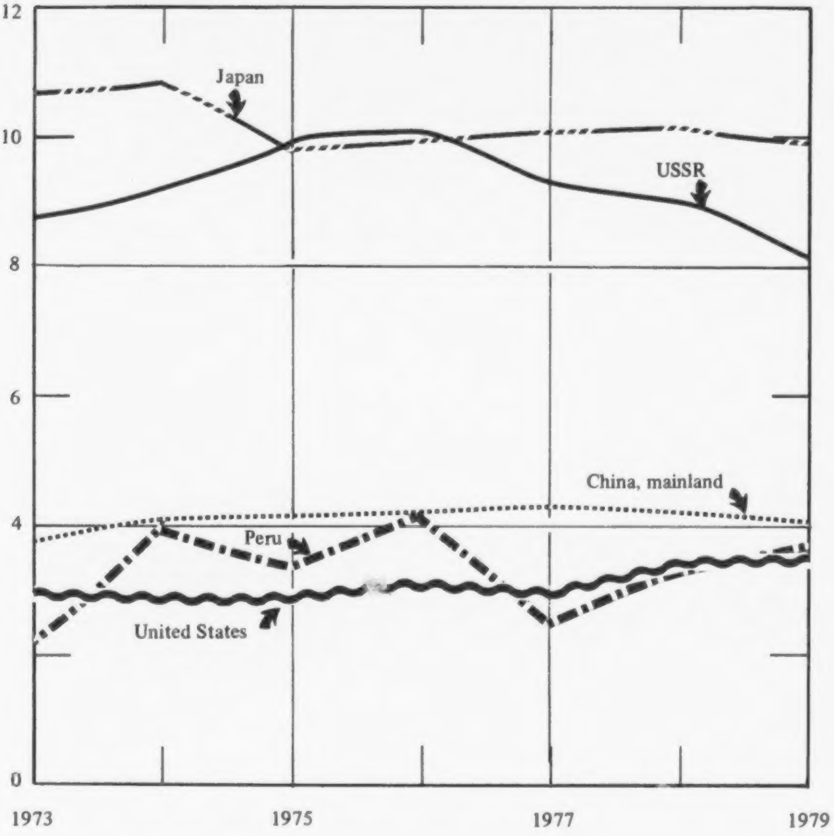
Country and species	1978	1979	1980
	Metric tons, round weight		
Republic of Korea:			
Atka mackerel	96.6	1,329.0	17,482.9
Cod, Pacific	1,752.8	3,245.4	6,404.3
Flounders:			
Yellowfin sole	65.5	1,355.7	16,197.9
Other	309.3	1,971.8	13,622.5
Herring, sea	19.1	107.6	22.7
Ocean perch, Pacific	491.3	282.1	740.0
Pollock, Alaska	62,370.6	84,137.4	113,864.6
Rockfishes	-	-	493.0
Sablefish	204.1	425.6	349.7
Other finfish	2,912.3	3,978.1	6,791.2
Squid, unclassified	215.0	1,233.0	1,620.3
Total	68,436.6	98,065.7	177,589.1
USSR:			
Atka mackerel	22,622.0	20,277.3	937.0
Cod, Pacific	560.4	2,645.0	10.9
Flounders:			
Yellowfin sole	50,532.2	41,258.7	6.4
Other	37,378.9	12,128.1	3.9
Herring, sea	6,106.4	5,717.8	428.2
Ocean perch, Pacific	242.3	21.6	4.6
Pollock, Alaska	92,713.8	60,617.4	2,156.4
Rockfishes	-	-	1.6
Sablefish	.2	49.2	-
Other finfish	10,806.1	8,054.4	7.7
Squid, unclassified	22.8	6.4	-
Total	220,985.1	150,775.9	3,556.7
Grand total	1,403,335.0	1,303,834.1	1,302,166.7

See note on page 26.

HAWAII AND PACIFIC ISLANDS
(WESTERN PACIFIC SEAMOUNT GROUNDFISH FISHERY)
BY SPECIES AND COUNTRY, 1978-80

Country and species	1978	1979	1980
	Metric tons, round weight		
Japan			
Alfonsins and armorheads	416.0	217.8	795.2
Grand total	416.0	217.8	795.2

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES, 1973-79
(Million metric tons, live weight)



Note:–Does not include marine mammals and aquatic plants.

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1950-79

	U.S. commercial catch and exvessel value			World commercial catch				
					Marine			
Year	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (includes weight of mollusk shells)	Exvessel value	Fresh-water	Peruvian anchovy	Other (1)	Total	Grand total
	Million metric tons		Billion dollars	Million metric tons				
	Live weight			Live weight				
1950	2.2	2.6	0.3	2.4	-	18.7	18.7	21.1
1951	2.0	2.4	.4	2.6	-	20.9	20.9	23.5
1952	2.0	2.4	.4	2.8	-	22.3	22.3	25.1
1953	2.0	2.7	.4	3.0	-	22.9	22.9	25.9
1954	2.2	2.8	.4	3.2	-	24.4	24.4	27.6
1955	2.2	2.8	.3	3.4	-	25.5	25.5	28.9
1956	2.4	3.0	.4	3.5	0.1	27.2	27.3	30.8
1957	2.2	2.8	.4	3.9	.3	27.5	27.8	31.7
1958	2.2	2.7	.4	4.5	.8	28.0	28.8	33.3
1959	2.3	2.9	.4	5.1	2.0	29.8	31.8	36.9
1960	2.2	2.8	.4	5.6	3.5	31.1	34.6	40.2
1961	2.4	2.9	.4	5.7	5.3	32.6	37.9	43.6
1962	2.4	3.0	.4	5.8	7.1	31.9	39.0	44.8
1963	2.2	2.8	.4	5.9	7.2	33.5	40.7	46.6
1964	2.1	2.6	.4	6.2	9.8	35.9	45.7	51.9
1965	2.2	2.7	.4	7.0	7.7	38.5	46.2	53.2
1966	1.9	2.5	.5	7.3	9.6	40.4	50.0	57.3
1967	1.8	2.4	.4	7.2	10.5	42.7	53.2	60.4
1968	1.9	2.5	.5	7.4	11.3	45.2	56.5	63.9
1969	1.9	2.5	.5	7.6	9.7	45.4	55.1	62.7
1970	2.2	2.8	.6	8.4	13.1	46.6	59.7	65.6
1971	2.3	2.9	.7	9.0	11.2	48.3	59.5	66.2
1972	2.2	2.8	.7	5.7	4.8	53.7	58.5	62.2
1973	2.2	2.8	.9	5.8	1.7	55.3	57.0	62.8
1974	2.3	2.8	.9	5.8	4.0	56.8	60.8	66.6
1975	2.2	2.8	1.0	6.2	3.3	57.0	60.3	66.5
1976	2.4	3.0	1.3	5.9	4.3	59.7	64.0	69.9
1977	2.4	3.0	1.5	6.1	.8	62.3	63.1	69.2
1978	2.7	3.4	1.9	5.8	1.4	63.3	64.7	70.5
1979	2.8	3.5	2.2	6.1	1.4	63.8	65.2	71.3

(1) Includes diadromous (salmon and other anadromous fishes and catadromous fishes such as eels).

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1979, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics 1979, Vol. 48. However, prior to 1973, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1972, data will not add to the grand total.

Source:--Fishery Statistics of the United States, Fisheries of the United States, Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1975-79
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Country	1975 (1)	1976 (1)	1977 (1)	1978 (1)	1979
	Thousand metric tons				
	Live weight				
Japan	9,895	9,994	10,123	10,184	9,966
USSR	9,970	10,132	9,351	8,915	9,114
China, mainland	4,247	4,320	4,463	4,394	4,054
Peru	3,448	4,344	2,537	3,369	3,682
United States	(2)2,842	(2)3,050	(2)2,980	(2)3,418	(2)3,511
Norway	2,481	3,361	3,402	2,587	2,652
Chile	899	1,379	1,319	1,929	2,633
India	2,266	2,174	2,312	2,306	2,343
Republic of Korea	1,887	2,118	2,085	2,092	2,162
Denmark	1,767	1,912	1,806	1,740	1,738
Indonesia	1,382	1,479	1,568	1,642	1,732
Thailand	1,553	1,659	2,188	2,095	1,716
Iceland	995	986	1,374	1,567	1,645
Philippines	1,443	1,393	1,509	1,495	1,476
Canada	993	1,102	1,235	1,366	1,332
North Korea	(3)1,050	(3)1,120	(3)1,190	(3)1,260	(3)1,330
Spain	1,512	1,469	1,389	1,373	1,205
Vietnam	(3)1,014	(3)1,014	(3)1,014	(3)1,014	(3)1,014
Mexico	468	526	611	703	875
Brazil	753	653	748	803	843
France	784	787	744	777	732
Malaysia	474	517	619	685	698
Republic of South Africa	600	595	550	600	659
Ecuador	222	298	434	617	644
Bangladesh	823	826	835	640	(3)640
Poland	801	750	655	571	601
Argentina	211	266	370	519	566
Burma	485	502	519	540	565
Nigeria	466	497	504	519	535
England and Wales	497	520	525	548	494
Italy	406	420	380	402	427
Scotland	442	476	445	456	383
Federal Rep. of Germany	442	454	432	412	356
Tanzania	196	239	288	295	344
Namibia (S.W. Africa)	761	574	404	418	327
Netherlands	351	285	313	324	324
Senegal	363	362	348	359	(3)308
All others	7,298	7,317	7,601	7,614	7,661
Total	66.487	69,870	69,170	70,548	71,287

(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture and other kinds of fish farming are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1979, Vol. 48.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENTS, 1975-79
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Continent	1975(1)	1976(1)	1977(1)	1978(1)	1979
	- - - - - - - - Thousand metric tons - - - - - - - -				
	Live weight				
Asia.	27,945	28,561	29,933	29,843	29,182
Europe.	12,513	13,407	13,289	12,502	12,305
USSR.	9,970	10,132	9,351	8,915	9,114
South America	5,811	7,226	5,707	7,586	8,722
North and Central America . .	4,689	5,188	5,403	6,018	6,249
Africa.	4,434	4,259	4,217	4,363	4,360
Oceania	244	284	282	334	340
Other	881	813	988	987	1,015
Total.	66,487	69,870	69,170	70,548	71,287

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1979, Vol. 48.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1975-79
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Area	1975(1)	1976(1)	1977(1)	1978(1)	1979
	- - - - - - - - Thousand metric tons - - - - - - - -				
	Live weight				
Marine areas:					
Pacific Ocean and adjacent areas.	30,553	32,906	32,071	34,003	35,257
Atlantic Ocean and adjacent areas.	25,539	26,632	25,944	25,651	24,912
Indian Ocean and adjacent areas.	3,202	3,219	3,791	3,767	3,638
Total.	59,294	62,757	61,806	63,421	63,807
Inland waters:					
Asia.	4,169	4,266	4,385	4,169	4,357
Africa.	1,399	1,416	1,506	1,518	1,605
USSR.	944	770	771	730	806
Europe.	282	290	307	295	310
South America	250	224	244	259	246
North and Central America . .	147	145	148	154	154
Oceania	2	2	3	2	2
Total.	7,193	7,113	7,364	7,127	7,480
Grand total.	66,487	69,870	69,170	70,548	71,287

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1979, Vol. 48.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1975-79
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS.)

Species group	1975(1)	1976(1)	1977(1)	1978(1)	1979
	Thousand metric tons Live weight				
Herring, sardines, anchovies, et al.	13,763	15,249	12,899	14,350	15,642
Cods, hakes, haddocks, et al.	11,858	12,130	10,595	10,409	10,589
Jacks, mullets, sauries, et al.	5,885	7,277	8,710	8,094	7,855
Miscellaneous marine and diadromous fishes	7,501	7,811	7,887	7,762	7,246
Freshwater fishes	6,154	5,947	6,076	5,817	6,069
Redfish, basses, congers, et al.	5,213	5,143	5,716	5,596	5,295
Mollusks	4,121	4,393	4,635	4,772	4,976
Mackerels, snoeks, cutlassfishes, et al.	4,167	3,842	4,080	4,765	4,516
Crustaceans	2,451	2,516	2,808	2,885	3,066
Tunas, bonitos, billfishes, et al.	2,099	2,323	2,391	2,516	2,421
Flounders, halibuts, soles, et al.	1,158	1,136	1,084	1,257	1,148
Shads, milkfishes, et al.	750	766	768	813	835
Salmon, trouts, smelts, et al.	552	556	632	623	750
Sharks, rays, chimaeras, et al.	595	556	563	590	567
River eels	57	67	70	75	85
Sturgeons, paddlefishes, et al.	28	31	32	28	29
Miscellaneous	134	127	225	194	197
Total (2)	66,487	69,870	69,170	70,548	71,287

(1) Revised.
(2) May not add to total because of rounding.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1979, Vol. 48.

DISPOSITION OF WORLD COMMERCIAL CATCH (EXCEPT WHALES AND SEALS), 1974-78

Item	1974	1975	1976	1977	1978
	Percent of total				
Marketed fresh	27.8	27.3	26.4	29.9	28.1
Frozen	17.4	17.8	18.7	18.2	18.3
Cured	11.5	11.8	11.3	10.8	11.2
Canned	13.4	13.5	13.0	13.4	13.4
Reduced to meal and oil	28.4	28.2	29.2	26.3	27.6
Miscellaneous purposes	1.5	1.4	1.4	1.4	1.4
Total	100.0	100.0	100.0	100.0	100.0

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 47.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1974-78

Country	1974	1975	1976	1977	1978
	Thousand U.S. dollars				
IMPORTS					
Japan	1,050,306	1,218,062	1,783,926	2,295,503	3,041,606
United States	1,518,599	1,381,271	1,890,869	2,085,845	2,225,946
France	404,968	489,030	540,895	655,111	844,410
Federal Republic of Germany	513,809	490,344	535,598	666,377	766,262
United Kingdom	446,655	434,354	512,703	556,205	692,769
Italy	306,239	310,673	387,828	425,257	542,307
Netherlands	161,741	172,477	202,395	257,693	327,078
Belgium	175,245	177,762	216,264	256,479	301,277
Hong Kong	128,664	135,808	182,458	215,056	254,873
Sweden	174,857	168,605	195,555	218,833	245,717
Spain	183,097	151,707	152,572	155,762	245,679
Denmark	118,391	115,935	132,122	175,106	221,097
Canada	120,135	130,812	183,618	205,755	216,414
Switzerland	98,319	96,103	107,977	138,551	172,983
Australia	105,475	100,380	90,861	122,978	137,452
Singapore	60,865	71,801	68,704	89,588	104,273
Poland	102,920	76,565	71,260	76,129	(1)84,388
Czechoslovakia	(1)52,250	(1)55,950	(1)84,879	(1)73,064	(1)75,064
Other countries	1,141,546	1,178,273	1,329,616	1,373,521	1,533,460
Total	6,864,081	6,955,912	8,670,100	10,042,813	12,033,055
EXPORTS					
Canada	433,360	441,928	598,796	756,595	981,222
United States	252,641	298,034	371,899	508,064	897,261
Norway	517,162	515,440	654,577	840,728	756,337
Japan	609,112	489,958	649,373	631,357	748,786
Denmark	439,834	426,772	586,282	628,655	727,855
Republic of Korea	168,977	361,117	321,468	696,716	639,363
Iceland	248,275	243,530	316,760	381,064	497,650
Netherlands	215,839	258,036	279,790	314,928	399,559
United Kingdom	138,272	134,207	153,382	197,063	284,721
Spain	208,560	181,914	244,970	236,419	281,041
Peru	255,911	212,586	212,868	226,043	(1)252,385
Mexico	135,650	160,557	205,200	197,055	250,676
Thailand	75,935	102,694	150,378	176,782	246,808
USSR	162,058	212,159	198,448	195,198	237,221
Federal Republic of Germany	157,500	139,039	181,585	230,913	235,099
India	95,088	132,879	192,601	205,727	(1)229,360
France	109,959	110,593	136,796	150,956	214,514
Chile	54,349	40,295	101,126	124,285	171,339
Other countries	1,738,831	1,899,110	2,368,604	2,772,188	3,118,896
Total	6,017,313	6,360,848	7,924,903	9,470,736	11,170,093

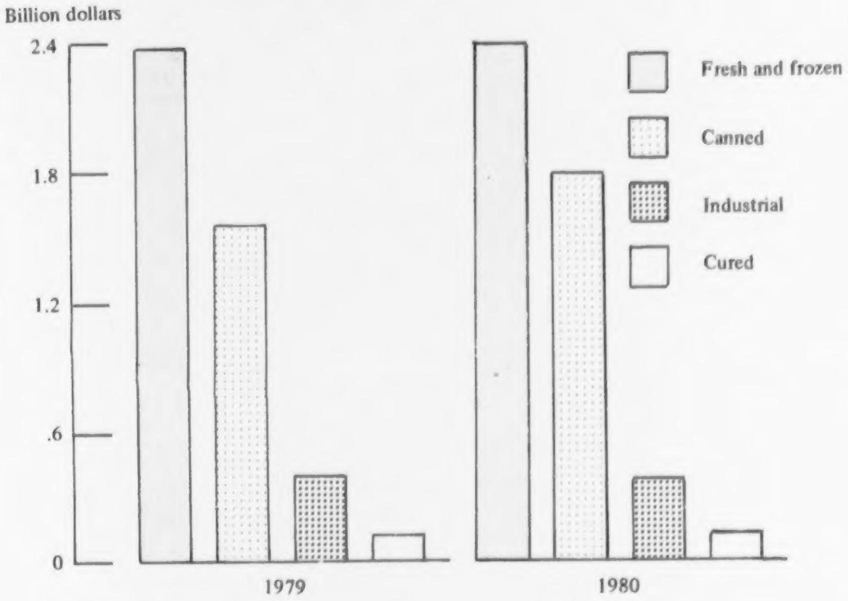
(1) Estimated by FAO.

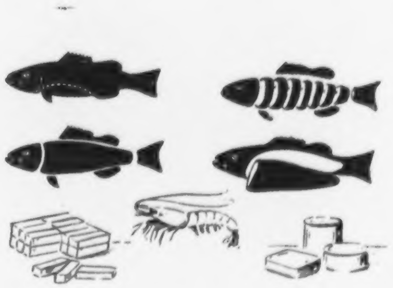
Note:--Data on imports and exports cover the international trade of 162 countries. Among the countries excluded, only mainland China has significant exports. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO), Yearbook of Fishery Statistics, 1978, Vol. 47.

PROCESESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS , 1979 AND 1980
(Processed from domestic catch and imported product)





PROCESSSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1979 AND 1980
(Processed from domestic catch and imported products)

Item	1979		1980 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen:				
Fillets and steaks, raw.	260,930	5.8	239,525	5.1
Fish sticks.	99,790	2.2	88,505	1.9
Fish portions.	429,164	9.6	399,974	8.5
Breaded shrimp	277,460	6.2	259,415	5.5
Other.	1,285,092	28.7	1,400,000	29.9
Total.	2,352,436	52.5	2,387,419	50.9
Canned	1,601,847	35.8	1,792,233	38.2
Cured.	112,477	2.5	118,000	2.5
Total edible	4,066,760	90.8	4,297,652	91.6
Industrial:				
Bait and animal food (canned).	150,316	3.3	124,240	2.6
Fish meal, oil, and solubles.	200,690	4.5	205,538	4.4
Other.	61,720	1.4	65,599	1.4
Total industrial . . .	412,726	9.2	395,377	8.4
Grand total.	4,479,486	100.0	4,693,029	100.0

(1) Preliminary.

Note:--Includes value of sealskins and the value of imported items that may be further processed in the United States. Value is based on selling price at plant. Includes products made from domestic landings and imported products.

TUNA
SALMON

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

U.S. PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1979 AND 1980

Species	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish	2,923	3,242	1,572	1,801
Buffalofish.	181	105	229	138
Carp	3,417	1,902	2,317	1,467
Cod.	32,956	44,824	30,275	41,258
Cusk	1,506	1,977	1,346	1,562
Flounders.	47,848	87,918	46,908	84,901
Groupers	436	1,287	289	966
Haddock.	19,278	33,275	17,560	29,158
Hake, Atlantic . . .	1,401	1,605	988	1,158
Halibut.	62	251	141	354
Herring, sea	15,714	8,842	16,987	10,134
Lingcod.	913	1,094	918	1,011
Ocean perch:				
Atlantic	8,576	10,017	7,112	9,132
Pacific.	2,140	2,454	1,797	1,863
Pollock, Atlantic. .	10,008	8,749	8,114	8,111
Rockfishes	10,783	11,259	13,275	11,655
Sablefish.	2,111	1,682	2,099	1,700
Salmon	301	1,064	176	574
Snapper, red	360	1,021	337	1,214
Spanish mackerel . .	590	641	394	548
Whitefish.	599	1,343	684	1,488
Whiting, Atlantic. .	491	371	591	485
Yellow perch	1,949	5,932	1,747	4,614
Yellow pike.	911	2,574	551	1,829
Unclassified	15,726	15,973	12,161	10,662
Total.	181,180	249,402	168,568	227,783
Steaks:				
Cod.	843	1,028	358	370
Halibut.	1,038	2,850	2,380	5,919
Salmon	2,781	5,359	1,440	3,881
Swordfish.	269	835	702	1,330
Unclassified	1,056	1,456	201	242
Total.	5,987	11,528	5,081	11,742
Grand total. . .	187,167	260,930	173,649	239,525

Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 4.9 million lb valued at $4.4 million in 1979 and 561,000 lb valued at $820,000 in 1980. Final data for 1980 will be published in U.S. Production of Fish Fillets and Steaks, Annual Summary, 1980, Current Fishery Statistics No. 8108.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1971-80

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1971.	97,777	56,807	240,196	123,136	104,588	121,213
1972.	114,493	61,491	269,204	149,148	107,375	140,933
1973.	*127,156	79,818	298,396	198,984	*111,922	176,793
1974.	103,059	64,599	276,226	193,830	91,778	142,559
1975.	91,166	62,182	295,613	216,253	97,694	176,742
1976.	94,169	73,182	344,284	286,240	95,923	202,972
1977.	87,230	68,727	355,443	341,760	97,518	216,551
1978.	94,674	86,712	389,430	415,892	110,888	258,467
1979.	96,050	*99,790	*396,089	*429,164	98,993	*277,460
1980.	88,394	88,505	361,228	399,974	81,474	259,415

*Record. Note:--Data for 1971 to 1979 include all firms reporting annually and quarterly. Data for 1980 include only those firms reporting quarterly. Fish Sticks, Fish Portions, and Breaded Shrimp Annual Summary, 1980, Current Fishery Statistics No. 8104 will give additional information.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1979 AND 1980

Species	Pounds per case	1979			1980		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Gefiltefish.	48	296,799	14,246	11,123	238,044	11,426	9,892
Herring and herring specialties	48	71,569	3,435	4,836	134,918	6,476	10,480
Mackerel	45	582,026	26,191	7,690	824,255	37,091	11,315
Roe and caviar	48	17,006	816	4,424	13,999	672	3,834
Salmon:							
Natural.	48	3,126,384	150,066	275,184	4,199,997	201,600	403,527
Specialties.	48	1,711	83	464	1,690	81	354
Sardines, Maine. . . .	23.4	1,297,830	30,369	44,818	846,533	19,809	31,467
Tuna:							
Solid.	21	5,834,583	122,526	245,463	4,799,406	100,788	221,827
Chunks	19.5	24,989,518	487,296	842,615	25,539,786	498,026	898,435
Flakes and grated. .	18	578,380	10,411	15,771	535,008	9,630	12,588
Total tuna	--	31,402,481	620,233	1,103,849	30,874,200	608,444	1,132,850
Specialties.	48	31,845	1,529	1,127	21,244	1,020	1,041
Tunalike fish	(1)	75,533	1,491	1,574	227,112	4,566	4,717
Other.	--	125,422	6,020	4,727	74,157	3,560	2,369
Total fish	--	37,028,606	854,479	1,459,816	37,456,149	894,745	1,611,846
Shellfish:							
Clams:							
Whole and minced (2)	15	728,514	10,928	25,514	788,054	11,821	27,256
Chowder and juice (2)	30	2,055,253	61,658	35,602	2,255,484	67,665	38,759
Specialties.	48	111,275	5,341	5,544	153,716	7,378	8,271
Crabs:							
Natural.	19.5	242,214	4,723	23,569	237,928	4,640	23,749
Specialties.	48	6,599	317	345	4,817	231	271
Oysters:							
Natural (3).	7	64,351	450	1,023	(4)	(4)	(4)
Specialties.	48	127,882	6,138	5,420	127,184	6,105	5,348
Shrimp:							
Natural (3).	6.75	1,419,881	9,584	40,089	2,397,292	16,182	71,070
Specialties.	48	24,793	1,190	940	22,884	1,098	867
Squid.	48	84,647	4,063	1,424	86,941	4,173	1,148
Other.	--	47,136	2,263	2,561	120,850	2,152	3,648
Total shellfish. .	--	4,912,545	106,655	142,031	6,195,150	121,445	180,387
Total for human consumption. . .	--	41,941,151	961,134	1,601,847	43,651,299	1,016,190	1,792,233
For bait and animal food:							
Animal food.	48	9,988,203	479,434	146,828	9,328,067	447,747	123,215
Salmon eggs, et al.. . .	48	6,882	330	3,488	8,137	391	1,025
Total for bait and animal food.	48	9,995,085	479,764	150,316	9,336,204	448,138	124,240
Grand total. . . .	--	51,936,236	1,440,898	1,752,163	52,987,503	1,464,328	1,916,473

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(1) Standard cases 48 cans, solid pack (7 oz net each) contains 21 lb; chunk (6.50 oz net each) 19.5 lb; and flakes and grated (6 oz net each) 18 lb. (2) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products. (3) Drained weight. (4) Included with other shellfish.

Note:--Final figures will be published in Canned Fishery Products, Annual Summary, 1980 Current Fishery Statistics No. 8101.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1978-80

Item	Pounds per case	1978		1979		1980	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:							
Solid.	21	5,579	239,822	4,494	193,941	4,290	201,407
Chunk.	19.5	1,265	49,458	1,033	42,127	1,064	46,202
Flakes and grated. .	18	276	7,226	278	7,783	157	4,896
Total	--	7,120	296,506	5,805	243,851	5,511	252,505
Lightmeat:							
Solid.	21	1,690	61,676	1,341	51,522	510	20,420
Chunk.	19.5	26,436	904,523	23,957	800,488	24,475	852,233
Flakes and grated. .	18	389	10,555	300	7,988	378	7,692
Total	--	28,515	976,754	25,598	859,998	25,363	880,345
Grand total . . .	--	35,635	1,273,260	31,403	1,103,849	30,874	1,132,850

PRODUCTION OF CANNED SHRIMP, BY AREA, 1978-80

Area	Pounds per case	1978		1979		1980	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States.	6.75	1,531	33,563	900	30,148	1,753	58,725
Pacific States	6.75	959	15,231	520	9,941	644	12,345
Total	--	2,490	48,794	1,420	40,089	2,397	71,070

PRODUCTION OF CANNED SALMON, 1978-80

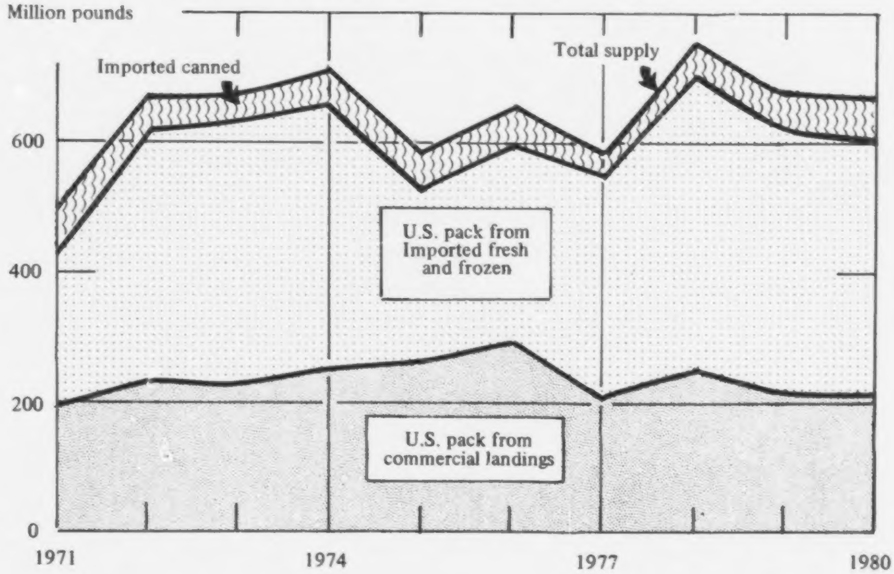
Item	Pounds per case	1978		1979		1980	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook or king. . . .	48.0	19	1,655	15	1,446	16	1,444
Chum or keta	48.0	368	21,011	144	10,057	428	32,948
Pink	48.0	1,957	127,165	1,897	148,202	2.123	170,927
Red or sockeye	48.0	1,041	95,914	1,037	112,598	1,579	193,029
Silver or coho	48.0	37	2,808	33	2,881	54	5,179
Total	--	3,422	248,553	3,126	275,184	4,200	403,527

PRODUCTION OF CANNED FISHERY PRODUCTS, 1971-80

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1971. . . .	816,227	666,239	512,589	104,358	1,328,816	770,597
1972. . . .	930,232	853,495	666,598	141,427	1,596,830	994,922
1973. . . .	951,000	996,302	*696,357	170,858	*1,647,357	1,167,160
1974. . . .	963,232	1,127,416	590,774	178,431	1,554,006	1,305,847
1975. . . .	802,112	919,692	583,751	152,253	1,385,863	1,071,945
1976. . . .	904,498	1,220,559	660,659	*197,955	1,565,157	1,418,514
1977. . . .	923,660	1,404,534	512,683	170,155	1,436,343	1,574,689
1978. . . .	*1,076,254	1,748,068	539,234	164,959	1,615,488	1,913,027
1979. . . .	961,134	1,601,847	479,764	150,316	1,440,898	1,752,163
1980. . . .	1,016,190	*1,792,233	448,138	124,240	1,464,328	*1,916,473

*Record.

U.S. SUPPLY OF CANNED TUNA, 1971-80



PROCESSED FISHERY PRODUCTS

INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1979 and 1980

Product	1979		1980	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Dried scrap and meal:				
Fish:				
Anchovy	9,906	3,322	7,834	2,927
Menhaden (1)	280,813	103,065	271,181	102,077
Tuna and mackerel	47,391	14,602	47,019	15,898
Unclassified	25,205	9,258	29,293	11,598
Total	363,315	130,247	355,327	132,500
Shellfish	10,978	1,281	6,595	800
Grand total	374,293	131,528	361,922	133,300
Solubles:				
Menhaden (1)	104,920	11,390	99,375	10,245
Unclassified	30,008	3,685	34,307	4,213
Total	134,928	15,075	133,682	14,458
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Body oil:				
Anchovy	2,780	340	1,371	228
Menhaden (1)	251,349	51,585	291,434	54,231
Tuna and mackerel	5,413	628	4,093	491
Unclassified (2)	8,407	1,534	14,701	2,830
Total	267,949	54,087	311,599	57,780

(1) May include small quantities made from other species. (2) Includes a small amount of liver oils.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Industrial Fishery Products, Annual Summary, 1980, Current Fisheries Statistics No. 8102.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1971-80

Year	Quantity			Value			
	Fish meal	Fish solubles	Marine animal oil	Fish meal, solubles, and oil	Shell products (1)	Other industrial products	Grand total
	Short tons	Short tons	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
1971	292,812	111,188	265,450	70,377	4,128	32,046	106,551
1972	285,506	134,395	188,445	67,133	4,210	84,639	155,982
1973	287,517	137,435	224,634	160,914	4,015	37,899	202,828
1974	300,714	137,259	237,980	145,325	4,651	48,858	198,834
1975	290,431	127,850	245,653	106,901	5,847	49,550	162,297
1976	309,694	133,107	204,581	142,228	6,085	36,437	184,750
1977	282,291	122,330	133,182	139,423	6,708	44,441	190,572
1978	362,910	162,543	296,287	204,211	4,465	42,247	250,923
1979	*374,293	134,928	267,949	200,690	(2)	58,768	259,458
1980	361,922	133,682	*311,599	*205,538	(2)	63,221	*268,759

(1) Beginning in 1971, data include only the value of oyster shell products. Data for marine-shell and mussel-shell products are included with "other industrial products." (2) Included with "other industrial products." *Record. Record fish soluble production, 165,359 short tons in 1959; and shell products, $17.3 million in 1950.

Note:--Does not include the value of imported items that may be further processed, or the value of sealskins. Table may not add because of rounding.

COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1980

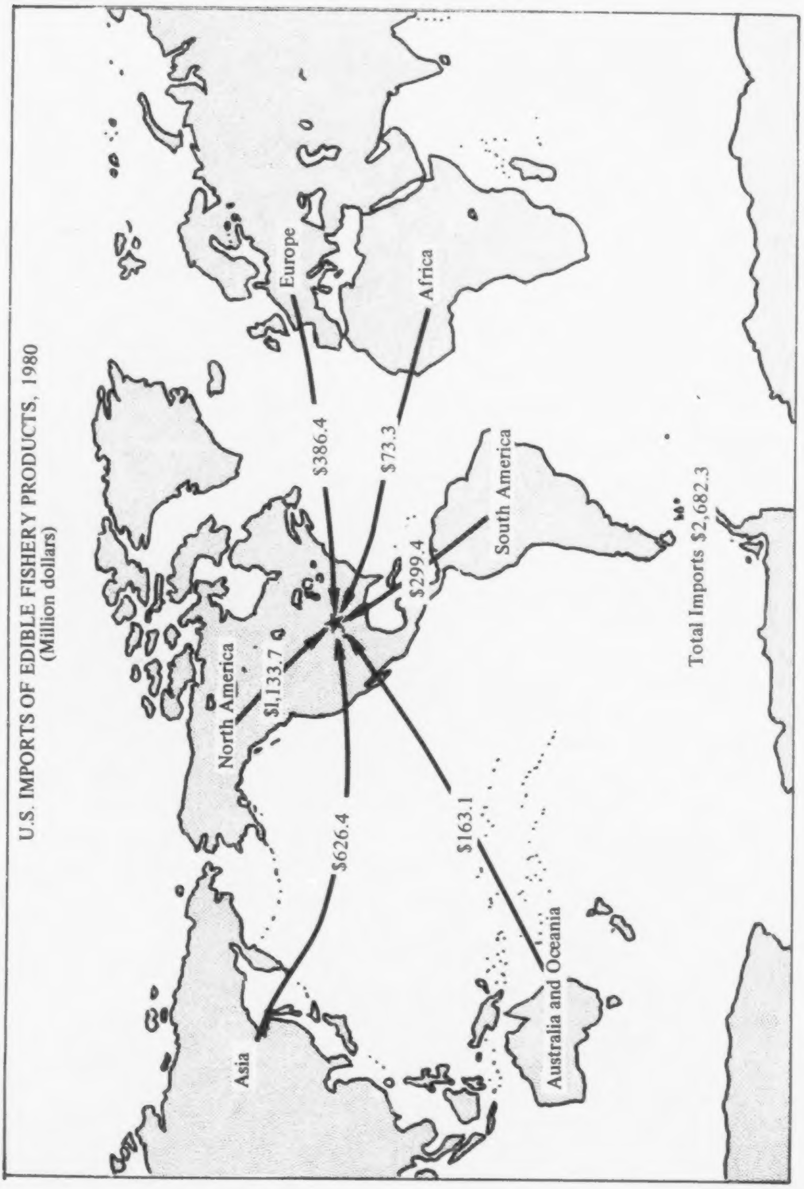
Item	January 1	March 31	June 30	September 30	December 31
	Thousand pounds				
Blocks:					
Cod	24,748	15,309	16,020	20,995	11,128
Flounder	3,587	2,704	2,254	2,740	3,015
Greenland turbot	2,032	1,354	716	1,259	1,276
Haddock	885	510	3,297	7,965	9,354
Ocean perch	3,024	1,870	1,225	1,141	1,988
Pollock (Alaska and other)	13,971	8,719	4,052	5,457	4,808
Whiting	7,302	7,077	7,638	7,919	5,861
Minced (grated) all species	4,376	3,856	3,351	4,326	4,369
Unclassified	2,575	2,927	4,167	5,841	4,941
Total blocks	62,500	44,326	42,720	57,643	46,740
Fillets and steaks:					
Cod	23,971	20,377	26,107	26,016	19,652
Flounder	12,707	10,776	7,577	9,342	12,495
Greenland turbot	9,101	4,736	2,044	4,029	3,383
Haddock	4,356	3,608	5,535	6,743	7,678
Halibut	1,993	2,187	2,574	2,735	2,029
Ocean perch	19,373	15,837	8,835	8,903	8,704
Whiting	3,719	2,759	2,605	2,510	2,588
Unclassified	36,214	34,956	23,415	28,317	31,488
Total fillets and steaks	111,434	95,236	78,692	88,595	88,017
Fish sticks and portions (cooked and uncooked, all species)	41,719	36,091	43,581	28,653	31,973
Round, dressed, etc:					
Catfish	1,765	2,196	3,201	2,351	3,560
Halibut	8,500	4,955	10,288	8,932	5,742
Rainbow trout	1,988	1,802	1,919	1,958	1,867
Salmon	36,653	24,803	10,125	37,287	26,526
Whiting	2,502	2,222	1,349	1,133	900
Unclassified fish	21,637	21,168	23,104	23,959	25,273
Crabs:					
King	34,063	29,050	11,595	11,311	37,768
Snow	11,222	9,860	13,944	10,496	6,448
Unclassified	7,659	7,275	4,532	3,910	4,855
Lobsters (spiny and other)	8,050	7,445	7,274	7,982	7,571
Shrimp:					
Raw, headless	46,866	41,248	17,735	23,118	31,612
Breaded	6,838	6,196	4,784	5,533	6,360
Peeled	20,101	18,859	13,914	16,876	19,111
Unclassified	13,638	12,338	11,812	10,976	20,595
Total shrimp	87,443	78,641	48,245	56,503	77,678
Other shellfish	23,000	20,782	20,565	20,233	20,001
Bait and animal food	11,054	13,444	12,572	17,637	8,345
Total fish and shellfish	471,189	399,296	333,706	378,583	393,264

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Final figures will be published in Frozen Fishery Products, Annual Summary, 1980, Current Fishery Statistics No. 8106.

FOREIGN TRADE

U.S. IMPORTS



U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, 1980
(Million dollars)

Europe
$386.4
Africa
$73.3
North America
$1,133.7
South America
$299.4
Asia
$626.4
Australia and Oceania
$163.1
Total Imports $2,682.3

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF EDIBLE AND NONEDIBLE FISHERY PRODUCTS, 1971-80

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	- - - Thousand dollars - - -	
1971.	1,785,470	887,070	187,131	1,074,201
1972.	2,341,138	1,233,292	261,119	1,494,411
1973.	*2,416,193	1,398,484	184,649	1,583,133
1974.	2,266,880	1,495,380	215,498	1,710,878
1975.	1,913,089	1,367,180	269,919	1,637,099
1976.	2,228,475	1,916,848	415,497	2,332,345
1977.	2,177,010	2,078,492	543,699	2,622,191
1978.	2,410,512	2,253,142	823,422	3,076,564
1979.	2,369,373	2,668,396	*1,142,656	*3,811,052
1980.	2,144,332	*2,682,284	965,798	3,648,082

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF FISHERY PRODUCTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1971-80

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - - - - - Thousand dollars			- - - - - - - -	Percent	
1971. . . .	1,074,201	45,545,900	(1)22,455	(1)2,768,000	2.1	6.1
1972. . . .	1,494,411	55,555,300	24,292	3,124,000	1.6	5.6
1973. . . .	1,583,133	68,655,100	25,835	3,459,000	1.6	5.0
1974. . . .	1,710,878	100,125,800	29,815	3,772,000	1.7	3.8
1975. . . .	1,637,099	96,515,102	26,675	3,780,000	1.6	3.9
1976. . . .	2,332,345	121,120,869	43,293	4,674,700	1.9	3.9
1977. . . .	2,622,191	147,075,300	58,252	5,484,800	2.2	3.7
1978. . . .	3,076,564	172,952,200	88,240	7,161,500	2.9	4.1
1979. . . .	3,811,052	205,922,662	116,617	7,202,174	3.1	3.5
1980. . . .	3,648,082	239,943,468	87,389	7,535,421	2.4	3.1

(1) These calculated duties do not include the temporary surcharge imposed by the President under Proclamation No. 4074, effective August 16, 1971, and terminating December 20, 1971.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF FISHERY PRODUCTS, BY PRINCIPAL ITEMS, 1979 AND 1980

Item	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Fillets:				
Groundfish	252,957	284,953	220,954	256,846
Other	174,569	185,418	148,207	158,405
Total	427,526	470,371	369,161	415,251
Blocks and slabs	408,152	337,365	336,117	288,914
Halibut	4,119	7,407	6,338	9,326
Salmon	5,022	11,390	5,533	13,887
Tuna:				
Albacore	212,517	144,553	164,980	148,441
Other	535,262	171,307	554,020	275,488
Loins and discs	5,842	5,706	3,686	5,343
Crabmeat	2,784	9,807	3,302	10,410
Scallops (meats)	25,155	84,906	20,885	82,002
Lobsters:				
American (includes fresh-cooked meat)	16,262	39,047	14,375	40,479
Spiny	44,417	259,421	36,157	230,152
Shrimp	220,216	705,008	215,083	711,200
Other	182,350	100,706	138,213	89,279
Canned:				
Herring, not in oil	7,077	9,481	5,577	8,615
Salmon	434	800	167	454
Sardines:				
In oil	22,878	27,679	18,218	24,226
Not in oil	26,878	16,299	32,960	19,834
Tuna:				
In oil	627	743	446	569
Not in oil	53,076	64,328	63,107	96,685
Bonito and yellowtail:				
In oil	300	224	531	311
Not in oil	71	67	273	313
Abalone	4,282	15,035	3,012	15,363
Clams	5,967	7,427	5,531	6,851
Crabmeat	5,073	12,329	5,002	12,503
Lobsters:				
American	1,790	10,912	2,090	12,529
Spiny	135	743	88	314
Oysters	19,075	18,320	16,989	20,263
Shrimp	4,288	8,230	4,225	8,063
Other	56,306	58,639	54,054	70,409
Cured:				
Pickled or salted:				
Cod, haddock, hake, etc.	39,683	43,293	33,015	35,992
Herring	17,218	9,433	16,727	10,388
Other	7,851	12,594	7,806	13,139
Other fish and shellfish	6,740	4,826	6,664	5,291
Total edible fishery products	2,369,373	2,668,396	2,144,332	2,682,284
Nonedible fishery products:				
Scrap and meal	179,226	29,616	99,074	15,530
Solubles	207	24	104	13
Other	-	1,113,016	-	950,255
Total nonedible fishery products	-	1,142,656	-	965,798
Grand total	-	3,811,052	-	3,648,082

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels in American Samoa.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF EDIBLE AND NONEDIBLE FISHERY PRODUCTS, 1980

Continent and country	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - Thousand dollars	- - - - - - -	
North America:				
Canada	481,477	560,614	40,068	600,682
Mexico	101,759	351,829	11,233	363,062
Panama	52,919	70,901	7,246	78,147
Nicaragua	7,723	30,615	7	30,622
Honduras	6,809	25,341	6	25,347
El Salvador	6,452	18,715	22	18,737
Other	60,868	75,663	6,873	82,541
Total	718,007	1,133,678	65,460	1,199,138
South America:				
Brazil	46,780	85,824	3,936	89,760
Ecuador	48,942	81,423	67	81,490
Peru	42,537	19,392	12,524	31,916
Argentina	25,442	17,051	9,770	26,821
Venezuela	13,707	21,556	55	21,611
Other	45,109	74,145	16,601	90,746
Total	222,517	299,391	42,953	342,344
Europe:				
European Economic Community:				
Italy	635	723	287,647	288,370
France	24,499	11,211	47,791	59,002
Federal Republic of Germany	1,285	1,556	51,912	53,468
United Kingdom	8,435	16,480	35,893	52,373
Other	35,408	46,290	15,985	62,275
Total	70,262	76,260	439,228	515,488
Other:				
Iceland	164,101	194,689	464	195,153
Norway	48,684	66,554	3,470	70,024
Switzerland	65	91	64,111	64,202
Spain	20,537	20,410	15,273	35,683
Other	27,527	28,369	18,346	46,715
Total	260,914	310,113	101,664	411,777
Asia:				
Japan	246,086	206,926	104,907	311,833
Hong Kong	9,922	12,773	97,859	110,632
China, Taiwan	59,601	68,694	14,342	83,036
Republic of Korea	83,482	63,401	6,482	69,883
Republic of Philippines	80,269	58,186	11,176	69,362
Other	225,143	216,481	72,759	289,240
Total	704,503	626,461	307,525	933,986
Australia and Oceania:				
Australia	12,562	91,168	1,561	92,729
New Zealand	8,813	23,317	754	24,071
British Pacific Islands	31,360	22,085	-	22,085
Papua New Guinea	40,722	19,647	-	19,647
Other	8,123	6,864	1,421	8,285
Total	101,580	163,081	3,736	166,817
Africa:				
Republic of South Africa	31,268	48,014	2,608	50,622
Mauritius	5,763	5,832	9	5,841
Ghana	12,884	5,186	9	5,195
French Indian Ocean Areas	7,112	4,634	-	4,634
Other	9,522	9,634	2,606	12,240
Total	66,549	73,300	5,232	78,532
Grand total	2,144,332	2,682,284	965,798	3,648,082

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF REGULAR AND MINCED FISH BLOCKS AND SLABS, BY SPECIES AND TYPE, 1979 AND 1980

Species and type	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	192,954	187,050	160,418	156,714
Flatfish:				
Turbot.	5,361	3,791	5,348	3,336
Other	12,594	16,385	8,048	9,295
Haddock	18,308	18,439	31,281	36,155
Ocean Perch, Atlantic . . .	5,120	4,216	3,901	2,968
Pollock	86,583	53,631	62,665	38,954
Whiting	54,287	35,320	36,867	25,502
Other	11,284	8,460	6,563	5,358
Total	386,491	327,292	315,091	278,282
Minced blocks and slabs: (1).	21,661	10,073	21,026	10,632
Grand total	408,152	337,365	336,117	288,914

(1) Most of the shipments were from Canada, Iceland, and Argentina.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF REGULAR AND MINCED FISH BLOCKS AND SLABS, BY COUNTRY OF ORIGIN, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.	124,330	116,436	120,506	111,874
Iceland	72,866	64,669	59,220	55,295
Republic of Korea	65,738	40,247	42,333	26,618
Norway.	19,711	17,530	20,759	22,009
Denmark	30,156	27,391	18,121	18,684
Greenland	19,098	16,801	13,248	11,001
Poland.	9,592	7,261	15,503	10,878
Argentina	27,853	17,043	15,846	10,598
Other	38,808	29,987	30,581	21,957
Total.	408,152	337,365	336,117	288,914

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF GROUNDFISH FILLETS AND STEAKS, BY SPECIES, 1979 AND 1980 (1)

Species	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	144,657	173,217	131,412	163,987
Haddock (2)	55,520	58,888	51,175	58,331
Ocean Perch, Atlantic	52,780	52,848	38,367	34,528
Total.	252,957	284,953	220,954	256,846

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

UNDER-QUOTA AND OVER-QUOTA IMPORTS OF GROUNDFISH FILLETS AND STEAKS, 1971-80 (1)

Year	Imports		
	Under-quota (2)	Over-quota (3)	Total
	Thousand pounds		
1971	30,329	141,123	171,452
1972	31,832	181,423	213,255
1973	34,125	185,971	220,096
1974	35,456	129,895	165,351
1975	35,695	164,661	200,356
1976	36,149	192,138	228,287
1977	35,437	181,986	217,423
1978	39,025	194,074	233,099
1979	42,744	210,213	252,957
1980	45,241	181,004	226,245

(1) Includes Atlantic ocean perch.
(2) Dutiable at 1.875 cents per lb. Quota was filled in all years.
(3) Dutiable at 2.5 cents per lb.

Source:--Data on under-quota imports from U.S. Department of the Treasury, Bureau of Customs. Imports over-quota calculated from imports reported by U.S. Department of Commerce, Bureau of the Census.

QUOTA AND IMPORTS OF CANNED TUNA NOT IN OIL, 1971-80

Year	Quota (1)	Imports	
		Under quota (2)	Over quota (3)
	Thousand pounds		
1971	77,296	55,638	-
1972	78,532	54,474	-
1973	109,809	36,973	-
1974	112,176	52,172	-
1975	120,740	48,847	-
1976	98,125	56,409	-
1977	111,246	33,913	-
1978	101,407	50,031	-
1979	125,813	82,202	-
1980	109,074	109,074	5,030

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack excluding the pack in American Samoa.
(2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and in 1972 to 1980, 6 percent.
(3) Dutiable in 1970 at 17 percent ad valorem; 1971, 15 percent; and 1972 to 1980, 12.5 percent ad valorem.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year is subject to this quota. Data include tuna imported from American Samoa and are counted towards the quota.

Source:--U.S. Department of the Treasury, Bureau of Customs.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF SHRIMP, BY COUNTRY OF ORIGIN, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	71,891	294,615	76,062	316,842
Panama	12,199	49,799	13,727	46,205
Nicaragua	5,397	17,771	5,624	20,835
El Salvador	6,271	19,489	6,233	18,139
Honduras	3,127	12,078	4,637	15,228
Guatemala	3,569	13,179	3,608	12,143
Costa Rica	2,193	4,503	2,459	6,092
Canada	1,146	3,450	2,356	5,463
Bahamas	8	46	832	2,046
Greenland	795	1,445	716	1,223
Trinidad	265	1,074	393	1,131
Other	229	862	488	1,248
Total	107,090	418,311	117,135	446,595
South America:				
Ecuador	13,703	54,483	20,195	68,081
Brazil	9,681	27,454	8,768	20,317
Guyana	3,734	7,636	5,281	16,394
Venezuela	2,345	10,490	3,874	15,993
French Guiana	3,598	7,260	4,194	14,594
Colombia	4,147	15,616	3,282	13,294
Surinam	1,471	5,101	935	4,038
Peru	782	1,984	1,475	3,999
Chile	243	901	54	181
Argentina	59	171	16	23
Total	39,763	131,096	48,074	156,914
Europe:				
European Economic Community:				
United Kingdom	311	1,079	1,651	4,049
Belgium and Luxembourg	27	65	316	658
Netherlands	330	669	274	600
Federal Republic of Germany	103	268	37	167
Denmark	262	410	1	2
Other	38	111	2	2
Total	1,071	2,602	2,281	5,478
Other:				
Norway	369	1,307	1,598	6,288
Spain	275	1,938	547	2,277
Iceland	18	51	64	288
Sweden	100	407	67	245
Austria	15	31	19	73
Other	20	10	41	68
Total	797	3,744	2,336	9,239
Asia:				
India	30,785	48,212	12,999	20,898
Thailand	10,620	22,065	8,841	16,586
China, Taiwan	7,934	14,312	5,427	9,754
Indonesia	5,523	11,209	4,579	8,840
Pakistan	1,024	1,819	3,358	5,264
Hong Kong	5,349	16,307	1,975	4,662
Sri Lanka (Ceylon)	1,320	3,092	1,670	4,520
China, Peking	2,989	14,904	934	3,437
Malaysia	1,727	2,562	2,010	3,433
Bangladesh	2,694	7,688	930	2,847
Burma	494	1,690	516	2,268
Republic of Philippines	1,294	2,709	580	1,267
Other	1,489	2,764	2,139	5,870
Total	73,242	149,333	46,058	89,646
Australia and Oceania	1,173	5,568	1,530	6,692
Africa	1,368	2,584	1,894	4,699
Grand total	224,504	713,238	219,308	719,263

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. IMPORTS

IMPORTS OF SHRIMP, BY TYPE OF PRODUCT, 1979 AND 1980

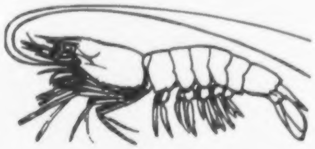
Type of product	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off).	123,447	469,857	138,750	519,217
Peeled:				
Canned.	4,288	8,230	4,225	8,063
Not breaded:				
Raw	86,069	212,474	66,270	170,459
Other	10,214	21,610	9,891	21,129
Breaded	486	1,067	172	395
Total.	224,504	713,238	219,308	719,263

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS OF FISH MEAL AND SCRAP, BY COUNTRY OF ORIGIN, 1979 AND 1980

Country	1979		1980	
	Short tons	Thousand dollars	Short tons	Thousand dollars
Canada.	27,230	8,312	24,203	7,324
Panama.	13,179	4,599	18,054	5,810
Peru.	28,243	9,418	6,622	2,163
Miquelon.	323	118	389	127
USSR.	-	-	231	87
Norway.	11,773	4,355	25	17
Chile	8,266	2,575	-	-
France.	578	216	-	-
Argentina	20	13	-	-
Other	1	10	13	2
Total.	89,613	29,616	49,537	15,530

Source:--U.S. Department of Commerce, Bureau of the Census.



FOREIGN TRADE

U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY PRINCIPAL ITEMS, 1979 AND 1980

Item	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Salmon	140,160	302,324	122,112	198,397
Other	104,941	91,650	143,672	91,703
Fillets:				
Salmon	4,205	9,270	3,353	8,674
Other	46,559	35,720	46,657	41,866
Fish sticks and portions	896	1,453	975	1,334
Shellfish:				
Shrimp	28,934	87,391	15,913	48,928
King crab	36,219	96,346	28,871	76,409
Snow crab	42,978	70,296	33,742	49,825
Other	37,759	52,519	33,207	52,585
Canned fish and shellfish:				
Mackerel	8,357	11,142	10,362	13,764
Salmon	50,719	91,917	74,006	149,971
Sardines	1,590	1,180	1,839	1,371
Shrimp	5,469	12,391	5,832	17,207
King crab	866	3,898	373	2,179
Squid	8,382	2,447	8,473	2,327
Other	2,581	7,322	2,964	6,793
Cured	10,441	15,326	13,478	17,482
Fish roe	21,010	123,551	26,556	120,032
Other fish and shellfish	1,513	4,061	1,511	3,516
Total edible fishery products	553,579	1,020,204	573,896	904,363
Nonedible fishery products:				
Fish meal	31,402	5,526	170,562	29,137
Fish oils	198,497	39,571	284,009	52,395
Seal furs	(1)	2,450	(1)	1,897
Other	-	14,615	-	18,362
Total nonedible fishery products	-	62,162	-	101,791
Grand total	-	1,082,366	-	1,006,154

(1) Number of seal furs was 23,422 in 1979 and 21,604 in 1980.

Source:--U.S. Deparment of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1971-80

Year	Edible		Nonedible	Total
	Thousand pounds	- - - - - - - - Thousand dollars	- - - - - - - -	
1971	171,816	113,637	25,608	139,245
1972	171,642	134,188	23,700	157,888
1973	238,942	241,866	57,302	299.168
1974	178,010	194,966	67,166	26[illegible]32
1975	218,152	267,360	37,369	304,729
1976	240,866	329,810	54,880	384,690
1977	331,059	473,375	47,121	520,496
1978	448,311	831,654	73,880	905,534
1979	553,579	*1,020,204	62,162	*1,082,366
1980	*573,896	904,363	*101,791	1,006,154

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1980

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
North America:				
Canada	118,486	144,255	2,610	146,865
Mexico	8,556	15,748	789	16,537
Netherlands Antilles	1,776	3,385	8	3,393
Bermuda	1,733	2,873	28	2,901
Dominican Republic	812	854	640	1,494
Bahamas	971	1,345	33	1,378
Panama	742	872	59	931
British Virgin Islands	566	569	4	573
Trinidad	290	489	4	493
French West Indies	374	381	10	391
Jamaica	245	345	6	351
Cayman Islands	101	274	8	282
Guatemala	333	264	7	271
Costa Rica	64	51	167	218
Barbados	104	171	13	184
Honduras	67	76	20	96
Haiti	89	67	-	67
Belize	21	52	-	52
Nicaragua	54	42	-	42
Turks and Caicos Islands	6	5	-	5
El Salvador	2	4	-	4
Total	135,392	172,122	4,406	176,528
South America:				
Venezuela	11,887	7,881	81	7,962
Peru	55	37	5,244	5,281
Colombia	162	334	827	1,161
Argentina	1	3	137	140
Surinam	99	95	4	99
Brazil	21	86	10	96
Chile	34	57	33	90
Ecuador	1	3	44	47
Uruguay	6	12	-	12
Bolivia	7	9	-	9
Paraguay	9	8		8
Total	12,282	8,525	6,380	14,905
Europe:				
European Economic Community:				
United Kingdom	44,178	88,403	15,899	104,302
France	29,899	52,085	727	52,812
Netherlands	12,369	26,103	19,700	45,803
Federal Republic of Germany	20,272	19,474	24,503	43,977
Belgium and Luxembourg	12,359	21,298	4,646	25,944
Italy	5,170	9,671	4,710	14,381
Denmark	2,638	4,110	100	4,210
Ireland	544	957	-	957
Total	127,429	222,101	70,285	292,386
Other:				
Sweden	7,781	13,155	1,773	14,928
Spain (1)	3,363	3,478	2,119	5,597
Greece	9,589	5,189	26	5,215
Switzerland	887	2,259	641	2,900

See footnotes at end of table.

(Continued)

EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1980 - Continued

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
Other - continued:				
Norway	350	766	2	768
Turkey	2,286	570	-	570
Finland	596	413	-	413
Portugal	248	210	-	210
Azores	38	80	-	80
Bulgaria	-	-	64	64
Malta and Gozo	18	41	-	41
Cyprus	40	38	-	38
Austria	13	18	12	30
Iceland	74	21	-	21
Total	25,283	26,238	4,637	30,875
Asia:				
Japan	227,800	399,720	6,156	405,876
Republic of Korea	13,683	27,176	503	27,679
China, Taiwan	2,771	7,655	1,954	9,609
Hong Kong	1,745	3,267	841	4,108
Saudi Arabia	1,750	2,671	120	2,791
Philippines	650	392	2,108	2,500
Singapore	832	1,532	35	1,567
Thailand	597	890	17	907
Kuwait	1,358	699	2	701
Lebanon	488	197	200	397
United Arab Emirates	181	308	-	308
Israel	260	304	3	307
Indonesia	94	171	3	174
Malaysia	35	80	10	90
Qatar	22	53	-	53
Bahrain	25	46	-	46
Oman	10	29	-	29
Pakistan	-	-	9	9
Sri Lanka (Ceylon)	(2)	5	-	5
Jordan	2	3	-	3
Brunei	-	-	2	2
India	-	-	2	2
Total	252,303	445,198	11,965	457,163
Australia and Oceania:				
Australia	11,100	21,308	26	21,334
New Zealand	578	1,292	11	1,303
French Pacific Islands	299	737	4	741
Trust Pacific Islands	75	127	1	128
Other Pacific Islands	27	59	-	59
Western Samoa	3	3	-	3
Papua, New Guinea	1	1	-	1
Total	12,083	23,527	42	23,569

See footnotes at end of table. (Continued)

U.S. EXPORTS

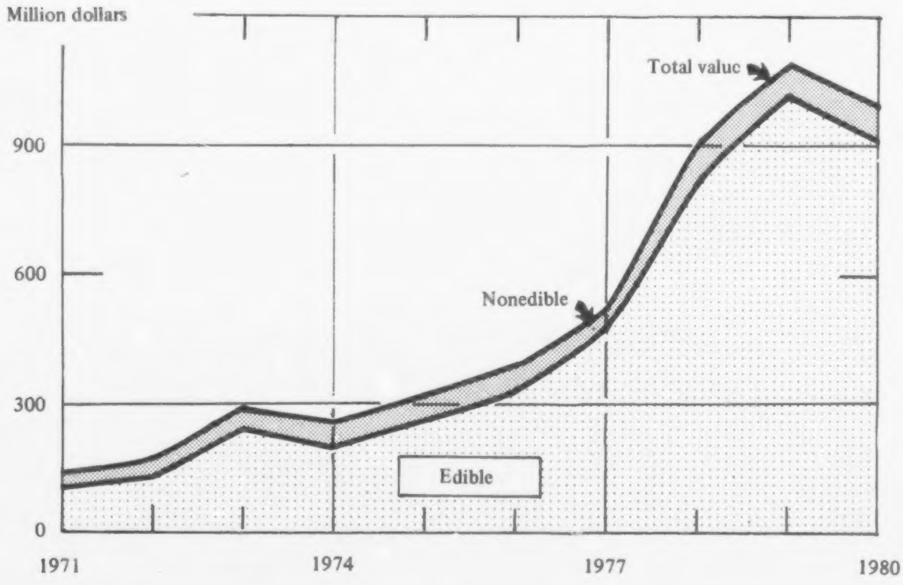
EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1980 - Continued

Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
Africa:				
Egypt	3,979	1,472	3,875	5,347
Republic of South Africa	1,615	2,937	64	3,001
Canary Islands (3)	951	1,053	-	1,053
Nigeria	2,356	822	118	940
Madeira Islands	106	120	-	120
Guinea	50	81	-	81
Libya	31	74	-	74
Zaire	9	30	-	30
Liberia	6	23	-	23
Mauritius	8	16	6	22
Congo (Brazzaville)	-	-	13	13
Ghana	5	10	-	10
Algeria	2	5	-	5
Sierra Leone	2	5	-	5
Rhodesia	3	3	-	3
Senegal	1	1	-	1
Total	9,124	5,652	4,076	10,728
Grand total	573,896	904,363	101,791	1,006,154

(1) Does not include Canary Islands, a province of Spain.
(2) Less than 500 lb.
(3) A province of Spain.

Source:--U.S. Department of Commerce, Bureau of the Census.

VALUE OF U.S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1971-80



U.S. EXPORTS

EXPORTS OF DOMESTIC AND FOREIGN SHRIMP PRODUCTS, 1979 AND 1980

Item	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic	28,934	87,391	15,913	48,928
Foreign	5,826	21,866	9,566	33,997
Total	34,760	109,257	25,479	82,925
Canned:				
Domestic	5,469	12,391	5,832	17,207
Foreign	25	45	371	679
Total	5,494	12,436	6,203	17,886
Total:				
Domestic	34,403	99,782	21,745	66,135
Foreign	5,851	21,911	9,937	34,676
Total	40,254	121,693	31,682	100,811

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FRESH AND FROZEN SHRIMP, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	11,176	29,251	8,016	23,403
Japan	3,953	16,624	2,841	11,670
Mexico	10,629	33,194	3,723	10,416
Saudi Arabia	56	161	106	450
Netherlands	561	856	180	346
New Zealand	231	610	62	262
Sweden	646	1,940	32	135
Hong Kong	291	489	62	60
Australia	185	500	5	22
Norway	214	753	5	8
Other	992	3,013	881	2,156
Total	28,934	87,391	15,913	48,928

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SHRIMP, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	4,127	8,972	4,282	12,771
United Kingdom	145	316	394	1,078
Switzerland	264	730	288	942
Thailand	19	34	196	396
New Zealand	145	360	105	358
Sweden	287	735	117	328
Japan	209	497	51	116
Federal Republic of Germany	47	128	19	37
France	50	166	-	-
Other	176	453	380	1,181
Total	5,469	12,391	5,832	17,207

Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FRESH AND FROZEN SALMON, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	93,458	191,803	67,332	105,576
France	17,123	48,448	13,931	30,533
Canada	6,445	9,264	19,255	20,288
United Kingdom	6,497	13,941	5,740	9,898
Sweden	5,972	9,421	4,913	7,793
Belgium and Luxembourg	2,747	8,222	2,439	5,632
Federal Republic of Germany	2,700	7,746	2,024	5,267
Netherlands	1,637	4,553	1,493	3,744
Italy	812	2,783	927	3,369
Denmark	1,443	2,909	1,228	2,307
Republic of Korea	409	886	1,717	1,649
Switzerland	125	352	106	263
Other	792	1,996	1,007	2,078
Total	140,160	302,324	122,112	198,397

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FRESH AND FROZEN SALMON FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
France	763	2,541	709	2,443
Canada	786	1,280	896	1,442
Italy	2	3	220	951
Japan	1,820	3,742	294	937
Federal Republic of Germany	285	849	261	925
Sweden	179	249	249	476
United Kingdom	105	109	187	427
Belgium and Luxembourg	94	182	152	303
Republic of South Africa	-	-	170	167
Other	171	315	215	603
Total	4,205	9,270	3,353	8,674

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SALMON, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	18,296	37,574	33,012	72,588
Canada	10,189	17,650	14,860	28,688
Australia	6,698	11,061	9,089	17,723
Netherlands	5,720	9,707	7,354	14,183
Belgium and Luxembourg	3,360	4,693	4,465	7,448
France	615	1,256	1,455	2,334
Republic of South Africa	356	491	792	1,456
Japan	3,078	5,511	527	1,163
Other	2,407	3,974	2,452	4,388
Total	50,719	91,917	74,006	149,971

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. EXPORTS

EXPORTS OF DOMESTIC FROZEN KING CRAB, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	32,863	78,262	23,866	58,098
Canada.	1,291	4,289	3,280	9,535
Netherlands	526	4,085	488	3,013
Belgium and Luxembourg. . . .	634	5,027	270	1,717
Australia	152	887	104	587
Italy	21	85	122	527
France.	167	982	57	375
Mexico.	21	43	187	360
Norway.	63	312	82	353
Federal Republic of Germany .	85	433	76	328
Switzerland	89	491	23	96
Other	307	1,450	316	1,420
Total.	36,219	96,346	28,871	76,409

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FROZEN SNOW CRAB, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	41,942	66,328	33,156	47,540
Belgium and Luxembourg. . . .	127	696	124	626
Australia	124	607	93	431
France.	176	885	74	381
Canada.	170	352	104	217
Netherlands	30	173	29	147
United Kingdom.	247	781	9	27
Other	162	474	153	456
Total.	42,978	70,296	33,742	49,825

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SQUID, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Greece.	6,516	1,808	7,125	1,812
Philippines	973	355	423	133
Federal Republic of Germany	176	60	237	87
Japan	50	22	212	49
Spain	130	43	91	10
Canada.	247	47	20	7
Australia	106	43	18	5
Other	184	69	347	224
Total.	8,382	2,447	8,473	2,327

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. EXPORTS

EXPORTS OF DOMESTIC FISH AND FISH LIVER OILS, BY COUNTRY OF DESTINATION, 1979 AND 1980

Country	1979		1980	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	75,167	14,989	86,051	16,314
United Kingdom.	45,048	8,843	83,678	14,952
Federal Republic of Germany	13,820	2,971	36,890	6,553
Peru.	(1)	3	27,010	5,242
Belgium and Luxembourg. . .	17,717	3,459	24,411	4,291
Sweden.	12,238	2,356	9,619	1,739
Spain	9,099	1,737	7,925	1,277
Columbia.	21,438	4,034	4,418	810
France.	1,876	353	1,984	358
Other	2,094	826	2,023	859
Total.	198,497	39,571	284,009	52,395

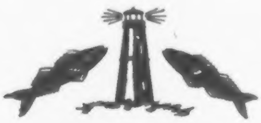
(1) Less than 500 pounds.

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISH MEAL, BY COUNTRY OF DESTINATION, 1979 AND 1980

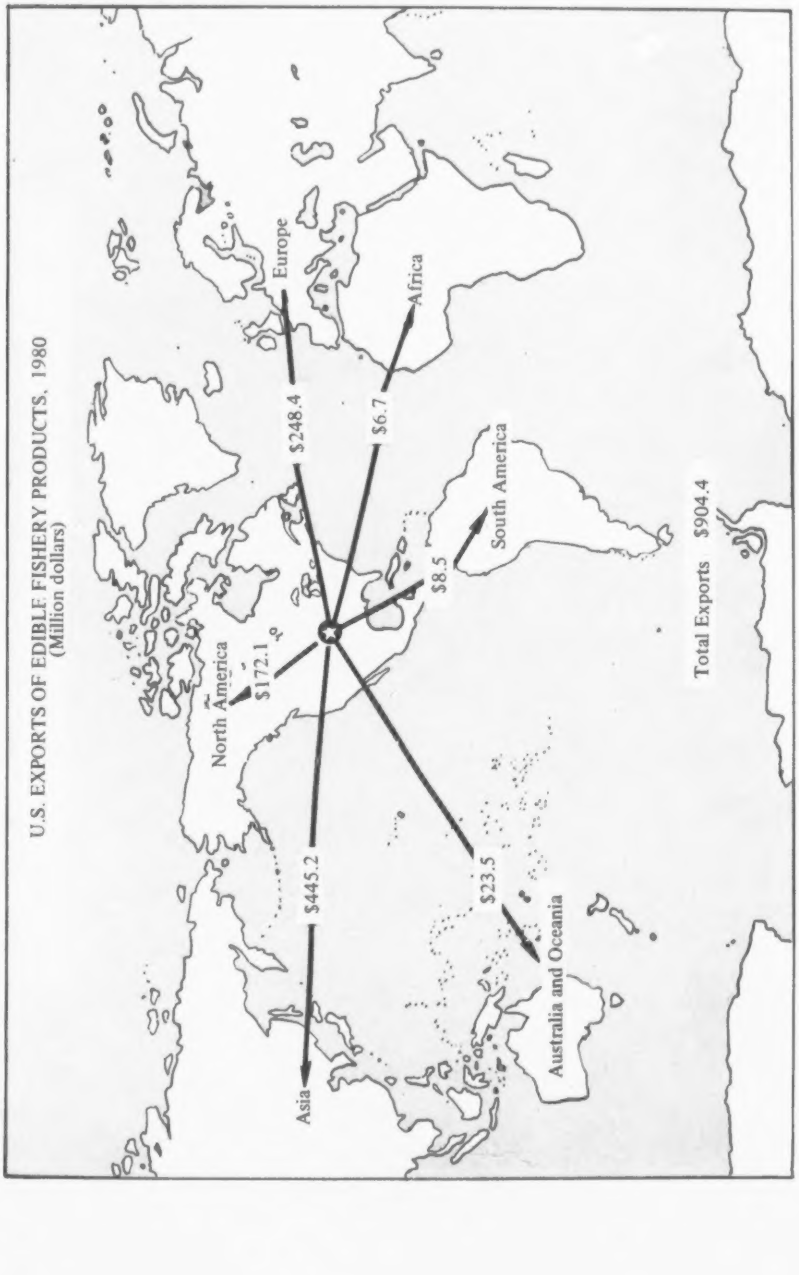
Country	1979		1980	
	Short Tons	Thousand dollars	Short Tons	Thousand dollars
Federal Republic of Germany	951	267	49,002	16,763
Egypt	9,720	4,024	9,878	3,875
Italy	-	-	8,272	3,002
Philippines	784	274	6,091	2,069
China, Taiwan	259	45	4,046	1,476
Dominican Republic.	1,007	326	1,656	532
Belgium and Luxembourg. . .	5	1	700	238
Mexico.	682	116	1,154	136
Canada.	904	129	1,011	146
Saudi Arabia.	512	206	228	75
Other	877	138	3,243	825
Total.	15,701	5,526	85,281	29,137

Source:--U.S. Department of Commerce, Bureau of the Census.



FOREIGN TRADE

U.S. EXPORTS



U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, 1980
(Million dollars)

Europe
$248.4
Africa
$6.7
South America
$8.5
North America
$172.1
Asia
$445.2
Australia and Oceania
$23.5
Total Exports $904.4

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1971-80
(Round-weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1971	5,018	42.5	6,786	57.5	11,804
1972	4,806	34.7	9,043	65.3	13,849
1973	4,858	46.8	5,520	53.2	10,378
1974	4,967	50.3	4,908	49.7	9,875
1975	4,877	48.0	5,287	52.0	10,164
1976	5,388	46.5	6,205	53.5	11,593
1977 (2)	5,198	49.1	5,381	50.9	10,579
1978 (2)	6,028	52.4	5,481	47.6	11,509
1979 (2)	6,267	53.0	5,564	47.0	11,831
1980 (2)	*6,482	57.1	4,875	42.9	11,357

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell). *Record. Record imports in 1968, 13,221 million lb; record total, 17,381 million lb.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1971-80
(Round-weight)

Year	Domestic commercial landings		Imports (1)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1971	2,441	40.5	3,582	59.5	6,023
1972	2,435	35.3	4,454	64.7	6,889
1973	2,398	33.7	4,709	66.3	7,107
1974	2,496	37.6	4,142	62.4	6,638
1975	2,465	38.6	3,929	61.4	6,394
1976	2,775	37.5	4,629	62.5	7,404
1977 (2)	2,900	39.1	4,514	60.9	7,414
1978 (2)	3,177	39.1	*4,958	60.9	8,135
1979 (2)	3,318	40.2	4,933	59.8	*8,251
1980 (2)	*3,654	45.6	4,352	54.4	8,006

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. (2) Preliminary. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1971-80
(Round-weight)

Year	Domestic commercial landings		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1971	2,577	44.6	3,204	55.4	5,781
1972	2,371	34.1	4,589	65.9	6,960
1973	2,460	75.2	811	24.8	3,271
1974	2,471	76.3	766	23.7	3,237
1975	2,412	64.0	1,358	36.0	3,770
1976	2,613	62.4	1,576	37.6	4,189
1977 (1)	2,298	72.6	867	27.4	3,165
1978 (1)	2,851	84.5	523	15.5	3,374
1979 (1)	*2,949	82.4	631	17.6	3,580
1980 (1)	2,828	84.4	523	15.6	3,351

(1) Preliminary. *Record. Record imports in 1968, 9,989 million lb; record total supply, 11,802 million lb.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1979 AND 1980

Item	Domestic commercial landings		Imports (1)		Total	
	1979	1980	1979	1980	1979	1980
	Million pounds, round weight					
Edible fishery products:						
Finfish	2,204	2,516	4,120	3,623	6,324	6,139
Shellfish	1,114	1,138	813	729	1,927	1,867
Total.	3,318	3,654	4,933	4,352	8,251	8,006
Industrial fishery products:						
Finfish	2,928	2,812	(2)631	(2)523	3,559	3,335
Shellfish	21	16	(3)	(3)	21	16
Total.	2,949	2,828	(2)631	(2)523	3,580	3,351
Total:						
Finfish	5,132	5,328	4,751	4,146	9,883	9,474
Shellfish	1,135	1,154	813	729	1,948	1,883
Total.	6,267	6,482	5,564	4,875	11,831	11,357

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1979 AND 1980

Item	Domestic commercial landings		Imports (1)		Total	
	1979	1980	1979	1980	1979	1980
	Million dollars					
Edible fishery products:						
Finfish	983	1,019	1,246	1,249	2,229	2,268
Shellfish	1,110	1,073	1,228	1,203	2,338	2,276
Total.	2,093	2,092	2,474	2,452	4,567	4,544
Industrial fishery products:						
Finfish	131	136	(2)31	(2)19	162	155
Shellfish	10	9	(3)	(3)	10	9
Total.	141	145	(2)31	(2)19	172	164
Total:						
Finfish	1,114	1,155	1,277	1,268	2,391	2,423
Shellfish	1,120	1,082	1,228	1,203	2,348	2,285
Total.	2,234	2,237	2,505	2,471	4,739	4,708

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.

(3) Not available.

Note:--Value of domestic commercial landings is exvessel value. Value of imports generally is export value, packed ready for shipment to the United States.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1971-80
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1971	6,186	1.9	311,166	98.1	317,352
1972	3,508	1.0	355,459	99.0	358,967
1973	9,865	2.7	358,730	97.3	368,595
1974	4,417	1.6	266,073	98.4	270,490
1975	2,357	.7	313,479	99.3	315,836
1976	1,697	.4	378,742	99.6	380,439
1977	2,138	.6	385,138	99.4	387,276
1978	1,879	.5	406,286	99.5	408,165
1979	4,857	1.2	*408,152	98.8	*413,009
1980	561	(1)	336,117	100.0	336,678

(1) Less than one tenth of one pecent. *Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1971-80
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1971	128,392	31.0	285,741	69.0	414,133
1972	126,643	24.7	385,127	75.3	511,770
1973	133,359	24.1	419,663	75.9	553,022
1974	132,337	29.6	315,275	70.4	447,612
1975	128,923	25.9	367,948	74.1	496,871
1976	144,274	25.9	413,307	74.1	557,581
1977	160,644	28.8	398,110	71.2	558,754
1978	184,356	30.3	423,749	69.7	608,105
1979	187,167	30.4	*427,526	69.6	*614,693
1980	173,649	32.0	369,161	68.0	542,810

(1) Includes fillets used to produce blocks. *Record. Record U.S. production, 205,486,000 lb. in 1951.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1971-80
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percentage of total supply	Quantity	Percentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1971	43,808	20.4	171,452	79.6	215,260
1972	39,266	15.5	213,255	84.5	252,521
1973	46,974	17.6	220,096	82.4	267,070
1974	45,337	21.5	165,351	78.5	210,688
1975	36,822	15.5	200,356	84.5	237,178
1976	40,564	15.1	228,287	84.9	268,851
1977	59,942	21.6	217,423	78.4	277,365
1978	65,573	22.0	233,106	78.0	298,679
1979	74,568	22.8	*252,957	77.2	*327,525
1980	65,753	22.9	220,954	77.1	286,707

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. Record U.S. production, 148,786,000 lb in 1951.

SUPPLY OF FISHERY PRODUCTS

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1971-80

Year	Domestic commercial landings			Imports		
	Atlantic, Gulf, Pacific Coast States, and Hawaii	Puerto Rico	Total	Fresh and frozen including cooked loins and discs (1)	Canned	
					In oil	Not in oil
	Round weight				Product weight	
	Thousand pounds					
1971	346,146	(2) 128,770	474,916	506,602	1,050	58,792
1972	387,032	(2) 147,668	534,700	764,784	384	56,129
1973	346,571	172,492	519,063	816,739	244	38,382
1974	392,223	165,008	557,231	838,889	233	52,513
1975	392,527	(2)*177,100	569,627	516,735	199	51,472
1976	*490,567	174,346	*664,913	641,121	288	58,605
1977	345,229	123,666	468,895	670,072	178	34,453
1978	408,878	(2) 156,813	565,691	*861,803	207	51,574
1979	364,476	(2) 143,676	508,152	800,178	627	53,076
1980	399,432	(2) 100,606	500,038	767,064	446	63,107

(1) Includes landings in American Samoa of foreign-caught fish. (2) Includes a small quantity of fish landed in American Samoa by U.S. vessels. *Record.

U.S. SUPPLY OF CANNED TUNA, 1971-80
(Canned weight)

Year	U.S. pack from domestic commercial landings (1)		U.S. pack from imported fresh and frozen tuna (2)		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1971. . .	194,468	39.0	244,273	49.0	438,741	59,842	12.0	498,583
1972. . .	234,000	34.6	385,796	57.0	619,796	56,513	8.4	676,309
1973. . .	224,130	33.2	411,719	61.1	635,849	38,626	5.7	674,475
1974. . .	249,803	35.0	410,542	57.6	660,345	52,746	7.4	713,091
1975. . .	260,785	44.9	268,618	46.2	529,403	51,671	8.9	581,074
1976. . .	*287,003	43.6	312,188	47.4	599,191	58,893	9.0	658,084
1977. . .	206,805	35.5	341,204	58.6	548,009	34,631	5.9	582,640
1978. . .	257,166	34.0	*447,627	59.2	*704,793	51,781	6.8	*756,574
1979. . .	218,493	32.4	401,740	59.6	620,233	53,703	8.0	673,936
1980. . .	215,663	32.1	392,781	58.4	608,444	63,553	9.5	671,997

(1) Includes pack from landings in Puerto Rico and American Samoa by U.S. vessels. (2) Includes tuna canned in American Samoa from foreign-caught fish. *Record.

U.S. SUPPLY OF CANNED BONITO AND YELLOWTAIL, 1971-80
(Canned weight)

Year	U.S. pack		Imports				Total supply
			In oil	Not in oil	Total		
	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1971	5,553	68.7	1,858	667	2,525	31.3	8,078
1972	6,633	64.0	2,638	1,094	3,732	36.0	10,365
1973	10,572	88.0	544	895	1,439	12.0	12,011
1974	7,789	95.8	282	59	341	4.2	8,130
1975	13,088	99.2	68	43	111	.8	13,199
1976	3,314	96.5	64	57	121	3.5	3,435
1977	9,494	87.3	17	1,358	1,375	12.7	10,869
1978	3,576	90.2	168	220	388	9.8	3,964
1979	1,491	80.1	300	71	371	19.9	1,862
1980	4,566	85.0	531	273	804	15.0	5,370

U.S. SUPPLY OF CANNED SARDINES, 1971-80
(Canned weight)

Year	U.S. Pack	Imports			Total Supply	Exports	
		Quantity					
	Quantity	In oil	Not in oil	Total		Domestic	Foreign
	Thousand pounds						
1971	22,249	31,034	18,985	50,019	72,268	890	8
1972	36,540	41,544	28,671	70,215	106,755	3,030	311
1973	23,284	36,089	31,330	67,419	90,703	1,740	244
1974	25,131	29,408	39,729	69,137	94,268	1,691	136
1975	26,008	18,513	12,593	31,106	57,114	2,161	180
1976	24,971	26,891	26,982	53,873	78,844	1,829	77
1977	23,496	25,748	24,288	50,036	73,532	1,186	34
1978	26,376	24,231	24,486	48,717	75,093	1,555	173
1979	30,369	22,878	26,878	49,756	80,125	1,590	301
1980	19,809	18,218	32,960	51,178	70,987	1,839	78

U.S. SUPPLY OF CANNED SALMON, 1971-80
(Canned weight)

Year	U.S. pack (1)	Imports	Total	Exports	
				Domestic	Foreign
	Thousand pounds				
1971	168,452	1,551	170,003	18,232	1
1972	92,858	11,647	104,505	21,358	53
1973	71,772	7,859	79,631	16,941	24
1974	87,791	8,553	96,344	8,320	2
1975	78,086	3,265	81,351	22,504	54
1976	125,323	2,521	127,844	19,588	232
1977	150,823	586	151,409	21,275	11
1978	164,279	325	164,604	32,513	33
1979	150,066	434	150,500	50,719	70
1980	201,600	167	201,767	74,006	57

(1) Record pack was 430,328,000 lb in 1936.

U.S. SUPPLY OF CLAM MEATS, 1971-80
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Total for U.S. consumption
	Hard	Soft	Surf	Other	Total		
	Thousand pounds						
1971	16,666	12,652	52,535	2,636	84,489	3,447	87,936
1972	16,153	9,078	63,471	1,987	90,689	5,128	95,817
1973	14,505	8,627	82,370	2,038	107,540	4,254	111,794
1974	14,665	9,590	96,110	1,328	121,693	4,913	126,606
1975	14,995	9,174	86,956	2,262	113,387	2,435	115,822
1976	15,251	10,467	49,158	7,656	82,532	6,705	89,237
1977	15,433	10,683	51,036	19,008	96,160	8,423	104,583
1978	13,295	10,091	39,237	25,098	87,711	6,131	93,842
1979	12,058	8,585	34,912	36,495	92,050	7,273	99,323
1980	13,370	8,948	37,737	35,314	95,369	6,880	102,249

(1) Imports were converted to meat weight by using these conversion factors: 0.40 for in shell or shucked; 0.30 for canned chowder and juice; and 0.93 for other.

U.S. SUPPLY OF KING CRAB, 1971-80
(Round weight)

Year	U.S. commercial landings	Exports (1)	
		Frozen	Canned
	Thousand pounds		
1971	70,703	(2)	213
1972	(3)74,426	(2)	112
1973	76,824	8,278	8,123
1974	95,214	4,431	3,768
1975	97,626	4,746	2,377
1976	105,899	7,173	1,972
1977	99,449	17,819	1,428
1978	121,254	52,966	2,462
1979	149,980	63,383	4,616
1980	183,228	50,525	1,988

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: domestic--frozen, 1.75; and canned 5.33. (2) Data not available. (3) Data revised since publication of Fishery Statistics of the United States, 1972. Note:--Data on U.S. commercial landings include deadloss weight for 1977-80.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1971-80
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)
	Thousand pounds			
1971	12,880	(3)	12,880	(3)
1972	(4)30,135	(3)	(4)30,135	(3)
1973	61,719	(3)	61,719	(3)
1974	63,906	(3)	63,906	(3)
1975	46,856	(3)	46,856	(3)
1976	80,771	(3)	80,771	(3)
1977	98,329	(3)	98,329	47,045
1978	128,837	4,460	133,297	67,530
1979	*130,453	4,255	134,708	91,543
1980	121,287	3,732	125,019	71,871

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise. Converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available. (3) Data not reported separately. (4) Data revised since publication of Fishery Statistics of the United States, 1972. Note:--Data on U.S. commercial landings include deadloss weight for 1978-80. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1971-80
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports (1)
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds
1971	3,213	46.3	3,723	53.7	6,936	40
1972	2,513	49.7	2,547	50.3	5,060	21
1973	3,724	65.6	1,956	34.4	5,680	1,524
1974	4,358	64.8	2,371	35.2	6,729	707
1975	3,283	69.5	1,440	30.5	4,723	446
1976	3,811	65.0	2,054	35.0	5,865	370
1977	5,013	59.1	3,463	40.9	8,476	268
1978	4,986	55.2	4,053	44.8	9,039	462
1979	4,723	48.2	5,073	51.8	9,796	866
1980	4,640	48.1	5,002	51.9	9,642	373

(1) Domestic king crab only. Record production was 11,002,000 lb in 1966; record imports, 13,507,000 lb in 1939.

U.S. SUPPLY OF AMERICAN LOBSTERS, 1971-80
(Round weight)

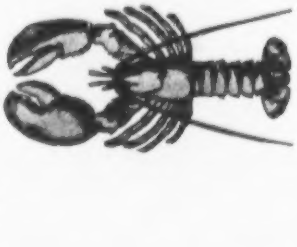
Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1971	33,688	49.4	23,894	10,635	*34,529	50.6	68,217
1972	32,244	52.8	18,811	10,032	28,843	47.2	61,087
1973	28,991	52.9	18,113	7,656	25,769	47.1	54,760
1974	28,543	53.3	17,586	7,392	24,978	46.7	53,521
1975	30,200	52.3	18,325	9,243	27,568	47.7	57,768
1976	31,483	51.9	19,176	9,957	29,133	48.1	60,616
1977	31,708	52.4	16,944	11,818	28,762	47.6	60,470
1978	34,419	55.9	16,468	10,648	27,116	44.1	61,535
1979	*37,184	54.5	22,790	8,307	31,097	45.5	68,281
1980	36,952	53.4	22,503	9,699	32,202	46.6	*69,154

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.

U.S. SUPPLY OF SPINY LOBSTERS, 1971-80
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	- - - Thousand pounds - - -			Percent	Thousand pounds
1971	8,941	6.2	133,974	473	134,447	93.8	143,388
1972	*12,215	8.0	139,802	428	140,230	92.0	152,445
1973	11,432	8.5	123,219	603	123,822	91.5	135,254
1974	11,708	8.1	132,158	428	132,586	91.9	144,294
1975	7,613	5.1	142,280	504	142,784	94.9	150,397
1976	5,643	3.2	164,859	3,536	*168,395	96.8	*174,038
1977	5,483	3.5	149,156	1,517	150,673	96.5	156,156
1978	4,629	3.1	143,945	563	144,508	96.9	149,137
1979	6,301	4.0	150,470	604	151,074	96.0	157,375
1980	6,861	5.4	119,817	395	120,212	94.6	127,073

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50, canned. *Record.



U.S. SUPPLY OF OYSTERS, 1971-80
(Meat weight)

Year	U.S. commercial landings				Imports (1)	Total for U.S. consumption
	Eastern	Pacific	Western	Total		
	Thousand pounds					
1971	49,838	8,048	52	57,938	17,519	75,457
1972	47,667	8,362	29	56,058	30,893	86,951
1973	45,333	6,576	22	51,931	26,351	78,282
1974	45,125	5,030	21	50,176	23,634	73,810
1975	47,398	5,807	22	53,227	20,542	73,769
1976	48,010	6,354	31	54,395	23,682	78,077
1977	40,436	5,590	(2)	46,026	29,774	75,800
1978	45,183	5,800	(2)	50,983	33,843	84,826
1979	42,325	5,756	(2)	48,081	27,131	75,212
1980	42,439	6,642	(2)	49,081	21,732	70,813

(1) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75 for other. (2) Not available.

U.S. SUPPLY OF SCALLOP MEATS, 1971-80
(Edible weight)

Year	U.S. commercial landings				Imports	Total for U.S. consumption
	Bay	Calico	Sea	Total		
	Thousand pounds					
1971	2,315	1,574	6,337	10,226	17,389	27,615
1972	2,032	1,352	7,017	10,401	20,820	31,221
1973	1,014	558	6,400	7,972	19,833	27,805
1974	1,499	1,131	6,444	9,074	18,100	27,174
1975	1,648	1,992	10,063	13,703	19,737	33,440
1976	1,590	2,268	19,853	23,711	25,253	48,964
1977	1,703	1,111	25,012	27,826	*29,786	57,612
1978	1,371	948	30,976	33,295	28,367	*61,662
1979	1,774	863	31,466	*34,103	25,155	59,258
1980	968		28,752	29,720	20,885	50,605

*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1971-80
(Heads-off weight)

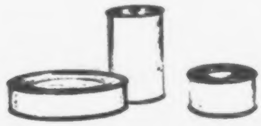
Year	U.S. commercial landings	Imports (1)	Total	Exports (2)			
				Fresh and frozen		Canned	
				Domestic	Foreign	Domestic	Foreign
	- - - - - - - -	- - - - - - - -	- - - - - - - -	Thousand pounds	- - - - - - - -	- - - - - - - -	- - - - - - - -
1971	238,073	215,073	453,146	35,404	10,475	16,835	-
1972	235,852	254,534	490,386	34,201	6,095	17,069	20
1973	228,643	230,780	459,423	*44,172	10,212	*20,097	106
1974	225,529	267,462	492,991	32,719	6,383	13,908	91
1975	209,151	230,963	440,114	33,132	6,586	12,570	10
1976	245,597	*270,720	516,317	27,489	9,138	15,693	181
1977	*288,443	270,406	*558,849	30,785	8,902	18,111	121
1978	256,882	239,044	495,926	41,065	13,308	12,088	146
1979	205,587	267,119	472,706	34,143	5,826	11,047	63
1980	207,869	255,957	463,826	18,770	9,567	11,781	*936

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.02, canned; and 2.40 for other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned, 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52. *Record. Record fresh and frozen foreign exports were 14,699,000 in 1970.

U.S. SUPPLY OF CANNED SHRIMP, 1971-80
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports	
						Domestic	Foreign
	Thousand pounds	Percent	Thousand pounds	Percent	- - -	Thousand pounds	- - -
1971	22,345	89.1	2,742	10.9	25,087	8,334	-
1972	23,795	95.5	1,123	4.5	24,918	8,450	8
1973	*25,228	89.3	3,027	10.7	28,255	*9,949	42
1974	22,121	78.4	*6,107	21.6	28,228	6,885	36
1975	12,407	91.7	1,118	8.3	13,525	6,223	4
1976	19,041	89.0	2,350	11.0	21,391	7,769	72
1977	24,525	89.7	2,809	10.3	27,334	8,966	48
1978	16,806	86.0	2,739	14.0	19,545	5,984	58
1979	9,584	69.1	4,288	30.9	13,872	5,469	25
1980	16,182	79.3	4,225	20.7	20,407	5,832	*371

*Record. Record total supply was 29,001,000 in 1970.



SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1971-80
(Product weight)

Year	U.S. production (1)		Imports		Total
	Short tons	Percent	Short tons	Percent	Short tons
1971	348,406	55.2	283,277	44.8	631,683
1972	352,704	47.4	391,998	52.6	744,702
1973	356,235	83.8	68,651	16.2	424,886
1974	369,344	84.4	68,307	15.6	437,651
1975	354,356	75.0	118,395	25.0	472,751
1976	376,248	72.7	140,988	27.3	517,236
1977	343,456	80.7	81,901	19.3	425,357
1978	*444,182	91.0	(2)43,901	9.0	488,083
1979	441,757	83.1	(2)89,613	16.9	531,370
1980	428,763	89.6	(2)49,537	10.4	478,300

(1) Includes shellfish meal production. (2) Data do not include imports of fish solubles for 1978-80.

Note:--Wet weight of solubles have been converted to dry weight by reducing its poundage by one-half. *Record. Record imports in 1968, 856,172 short tons and total, 1,127,225 short tons.

U.S. SUPPLY OF FISH MEAL, 1971-80
(Product weight)

Year	Domestic production (1)	Imports	Total supply	Exports (2)	Total for U.S. consumption
			Short tons		
1971	292,812	283,249	576,061	10,594	565,467
1972	285,506	391,955	677,461	18,869	658,592
1973	287,517	68,496	356,013	45,745	310,268
1974	300,714	68,297	369,011	55,522	313,489
1975	290,431	118,371	408,802	12,475	396,327
1976	309,694	140,377	450,071	33,322	416,749
1977	282,291	81,491	363,782	37,199	326,583
1978	362,910	43,901	406,811	54,633	352,178
1979	*374,293	89,613	463,906	16,456	447,450
1980	361,922	49,537	411,459	*86,036	325,423

(1) Includes shellfish meal. (2) Includes exports of domestic and foreign fish meal. *Record. Record imports in 1968, 855,285 short tons; total supply and total for U.S. consumption, 1,090,421 short tons.

U.S. SUPPLY OF FISH SOLUBLES, 1971-80
(Product weight)

Year	U.S. production		Imports (1)		Total
	Short tons	Percent	Short tons	Percent	Short tons
1971	111,188	99.9	56	0.1	111,244
1972	134,395	99.9	85	.1	134,480
1973	137,435	99.8	309	.2	137,744
1974	137,259	100.0	19	(2)	137,278
1975	127,850	100.0	48	(2)	127,898
1976	133,107	99.1	1,221	.9	134,328
1977	122,330	99.3	820	.7	123,150
1978	162,543	100.0	(3)	-	162,543
1979	134,928	100.0	(3)	-	134,928
1980	133,682	100.0	(3)	-	133,682

(1) Includes only fish solubles and will not check with other tables that show total imports of fish solubles and cod-liver solubles for years 1970 to 1977. (2) Less than one-tenth of 1 percent. (3) Data no longer reported separately by the Bureau of the Census.

Note:--Record U.S. production in 1959, 165,359 short tons; imports, 26,630 short tons; and total, 191,989 short tons.

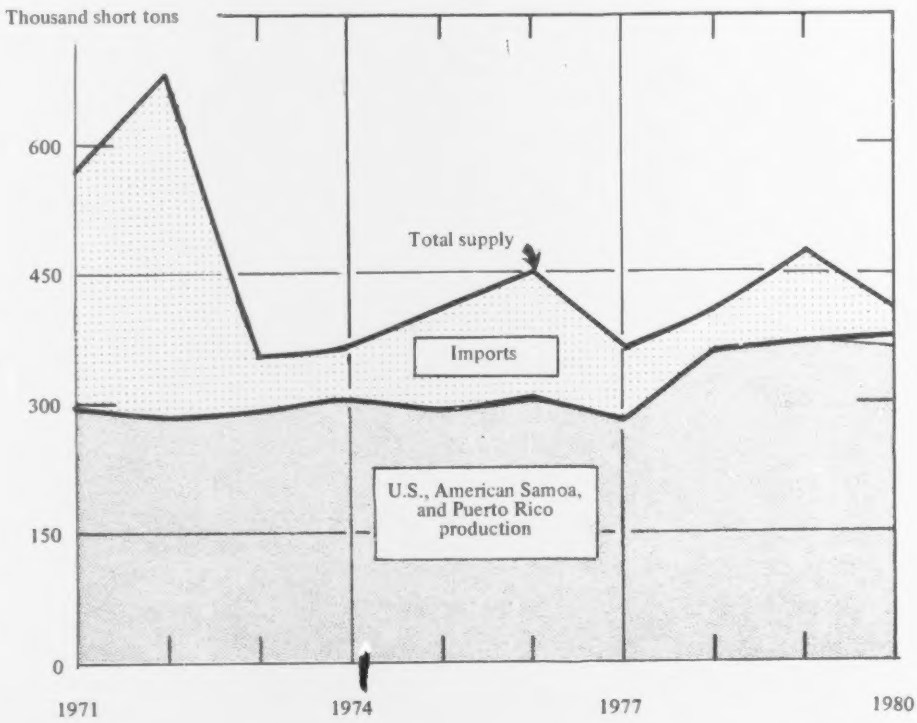
U.S SUPPLY OF FISH OILS, 1971-80

Year	Domestic production	Imports (1)	Total supply	Exports	Total for U.S. consumption
	Thousand pounds				
1971	265,032	7,512	272,544	229,898	42,646
1972	188,445	9,466	197,911	193,198	4,713
1973	224,634	6,733	231,367	247,793	(2)
1974	237,980	12,356	250,336	199,122	51,214
1975	245,653	11,283	256,936	191,843	65,093
1976	204,581	20,937	225,518	179,235	46,283
1977	133,182	13,731	146,913	90,633	56,280
1978	296,287	16,041	312,328	222,012	90,316
1979	267,949	14,463	282,412	198,497	83,915
1980	*311,599	21,350	332,949	284,009	48,940

(1) Excludes fish liver oil.
(2) Total for U.S. consumption was a negative (-)16,426,000 lb because of export of prior year stocks.

Note:--Does not include exports of foreign merchandise. *Record.

U.S. SUPPLY OF FISH MEAL, 1971-80
(Domestic production plus imports)



PRICES

INDEXES OF EXVESSEL PRICES

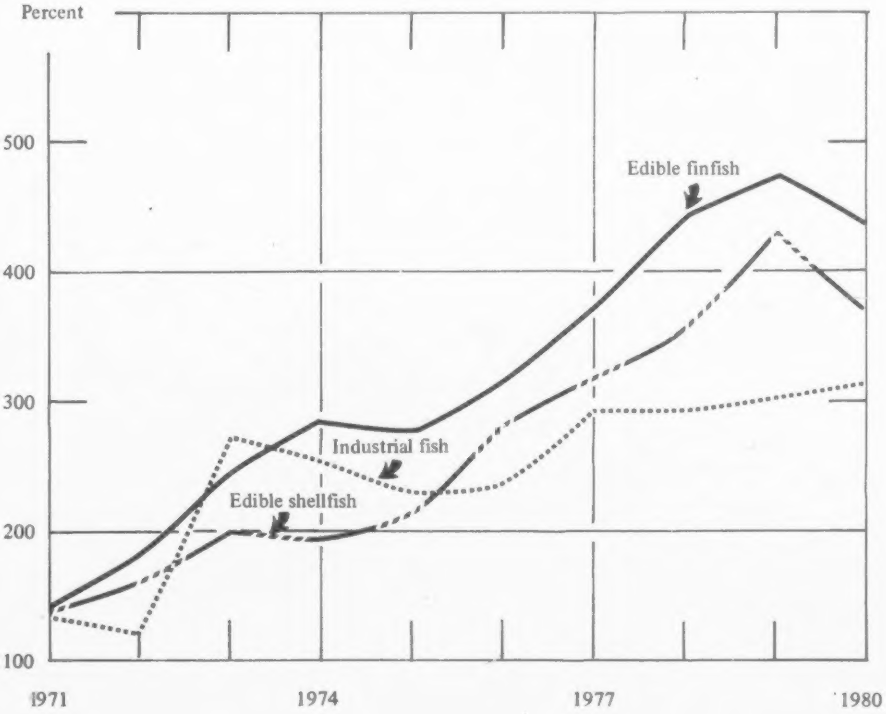
The tables that follow show indexes of exvessel prices prepared by the National Marine Fisheries Service. Most of the prices used in calculating the "Indexes of Exvessel Prices for Fish and Shellfish" are based on monthly landings and value data. In a few cases, prices are obtained from Fishery Market News Reports and Market News Offices. The index for each species is calculated by multiplying the current monthly price by the total quantity caught in 1967 (the base year) to obtain a value for the current month. That value is then divided by the 1967 average monthly value to obtain the final index:

$$\frac{\text{(Current price X 1967 quantity)}}{\text{1967 average monthly value}} = \text{Index for each species}$$

To calculate the index for salmon, tuna, New England finfish, and other shellfish, the current monthly values for each of these species are added together and divided by the aggregate 1967 average monthly values for the group. To calculate monthly indexes for edible finfish, edible shellfish, edible fish, industrial fish, and all fish, the index number for each species is multiplied by a factor representing its importance in the total exvessel value of all species of fish and shellfish for the period 1966-70; the sum of these products is the index number for the group of species.

Each index number calculated for years other than the base year of 1967 measures price changes from the reference period (1967) which equals 100. An increase of 85 percent from the reference period in the index, for example, is shown as 185.0. This change can also be expressed in dollars, as follows: The price of a species of fish that sold in the United States for $1.00 per pound in 1967 has increased to $1.85 per pound.

INDEXES OF EXVESSEL PRICES UNDER FISHERY MANAGEMENT PLANS, 1971-80
(1967=100)



PRICES

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1975-80
(1967=100)

Species or group	1975	1976	1977	1978	1979 (1)	1980 (2)
New England finfish:						
Cod	285.2	312.5	284.6	287.5	335.7	325.0
Haddock	232.5	290.2	246.8	241.0	299.7	285.2
Yellowtail flounder	339.8	399.3	432.4	558.2	497.7	438.3
Other flounders	254.2	381.0	278.3	352.6	346.3	299.4
Ocean perch	263.0	347.1	391.5	440.1	544.3	615.9
Pollock	227.7	255.9	267.9	307.4	376.8	346.2
Whiting	193.3	180.8	213.6	307.6	365.6	384.9
New England finfish	260.2	305.7	298.9	343.9	373.9	357.0
Red snapper	237.3	275.5	330.8	389.0	455.7	504.5
Pacific halibut	332.6	463.3	494.8	550.6	674.6	506.3
Salmon:						
Chinook - troll	210.6	312.7	404.4	401.2	468.4	448.9
Chinook - nontroll	203.0	369.0	564.2	548.9	642.6	553.5
Chum	436.8	564.2	664.6	738.8	815.3	658.8
Coho - troll	214.9	287.1	330.2	346.2	454.7	411.2
Coho - nontroll	292.3	370.0	478.0	538.5	507.4	569.6
Pink	353.7	275.1	378.6	402.8	350.4	360.2
Sockeye	447.8	452.4	490.4	781.8	819.1	486.9
Salmon	336.6	380.9	459.0	572.6	615.4	479.0
Tuna:						
Albacore	197.8	246.0	286.0	316.3	338.1	398.0
Skipjack	220.1	246.6	316.8	353.4	355.0	485.2
Bluefin	203.2	225.6	285.7	323.9	346.0	427.1
Yellowfin	189.5	209.5	209.5	297.8	315.6	420.3
Tuna	200.5	228.6	286.8	318.8	332.9	434.4
Edible finfish	276.3	319.7	370.7	448.3	476.4	439.1
Shrimp	218.5	298.0	301.5	313.1	452.3	369.4
Other shellfish:						
Hard clams	171.6	204.5	229.1	265.9	330.4	400.0
Soft clams	236.4	310.2	342.7	364.7	432.7	458.7
Surf clams	136.7	482.6	517.7	521.7	522.2	509.0
Hard blue crabs	291.4	383.9	440.5	372.3	376.6	361.0
King crabs	340.2	659.6	923.1	1,267.0	1,283.1	855.4
American lobsters	206.0	216.3	245.1	264.3	262.8	278.1
Eastern oysters	119.8	152.5	173.6	171.1	186.4	192.2
Sea scallops	239.4	247.2	216.0	327.2	439.4	535.2
Other shellfish	199.3	281.6	336.6	393.7	419.6	383.2
Edible shellfish	208.7	289.7	319.4	354.2	435.6	376.4
Edible fish	240.7	303.9	343.7	398.7	454.9	406.1
Industrial fish	224.4	234.8	292.6	293.6	305.1	315.6
Menhaden	224.4	234.8	292.6	293.6	305.1	315.6
All fish	239.6	299.1	340.1	391.4	444.6	399.9

(1) Revised.
(2) Preliminary.

Note:--Simple averages of the 12 monthly indexes. Upward or downward changes in this index will not necessarily agree with changes in unit values shown in landings tables.

PRICES

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1980
(1967=100)

Species or group	Jan.	Feb.	Mar.	Apr.	May	June
New England finfish:						
Cod.	459.8	368.3	414.1	252.2	204.1	217.0
Haddock.	437.4	325.3	367.3	216.6	189.4	230.6
Yellowtail flounder. . .	503.5	525.1	680.3	359.1	328.4	333.8
Other flounders.	358.0	339.1	446.4	213.1	179.0	242.8
Ocean perch.	659.8	672.6	746.4	634.4	583.4	557.9
Pollock.	463.6	428.1	531.3	353.6	247.1	306.3
Whiting.	385.9	470.8	513.2	294.8	347.8	502.5
New England finfish .	454.3	411.7	488.0	289.9	262.5	301.9
Red snapper.	461.0	463.8	499.9	502.7	519.4	497.1
Pacific halibut.	637.0	637.0	637.0	637.0	442.3	392.8
Salmon:						
Chinook - troll.	530.2	530.2	530.2	477.2	445.4	424.2
Chinook - nontroll . . .	571.9	571.9	571.9	553.5	553.5	590.4
Chum	698.8	698.8	698.8	698.8	698.8	698.8
Coho - troll	551.0	551.0	551.0	551.0	367.4	293.9
Coho - nontroll.	681.4	681.4	681.4	527.5	527.5	505.5
Pink	392.9	392.9	392.9	392.9	392.9	392.9
Sockeye.	639.7	639.7	639.7	639.7	639.7	426.4
Salmon.	580.7	580.7	580.7	562.2	527.4	442.5
Tuna:						
Albacore	367.4	367.4	367.4	367.4	367.4	367.4
Skipjack	423.3	465.5	493.3	493.3	493.3	493.3
Bluefin.	369.2	369.2	369.2	369.2	369.2	468.4
Yellowfin.	381.8	403.8	425.8	425.8	425.8	425.8
Tuna.	390.2	412.4	430.5	430.5	430.5	434.5
Edible finfish . .	495.3	492.8	515.8	465.1	436.5	408.6
Shrimp	409.9	398.5	378.1	358.5	335.0	382.9
Other shellfish:						
Hard clams	389.0	407.1	394.4	379.2	353.9	353.6
Soft clams	435.7	455.8	411.7	403.0	396.5	416.1
Surf clams	406.4	408.5	534.8	532.8	513.3	525.6
Hard blue crabs.	402.8	467.1	472.2	353.7	362.2	397.7
King crabs	812.0	812.0	812.0	812.0	812.0	812.0
American lobsters. . . .	303.6	332.1	397.6	392.2	260.5	286.6
Eastern oysters.	190.7	192.2	196.1	207.0	203.8	157.8
Sea scallops	534.3	517.7	509.2	456.2	403.3	453.5
Other shellfish . . .	379.0	392.1	408.2	395.4	360.2	358.4
Edible shellfish .	394.1	395.2	393.5	377.3	348.2	370.4
Edible fish.	442.0	441.4	451.3	418.8	390.0	388.5
Industrial	223.3	223.3	223.3	348.7	356.0	394.9
Menhaden	223.3	223.3	223.3	348.7	356.0	394.9
All fish	426.9	426.4	435.6	414.0	387.7	388.9

(Continued)

EXVESSEL

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY MONTHS, 1980 - Continued
(1967=100)

Species or group	July	Aug.	Sept.	Oct.	Nov.	Dec.
New England finfish:						
Cod	238.2	282.7	254.5	317.9	416.4	475.1
Haddock	229.8	234.7	228.1	273.4	345.1	344.3
Yellowtail flounder	394.3	444.8	341.1	427.7	462.9	458.4
Other flounders	287.0	320.3	252.9	305.8	314.5	334.1
Ocean perch	532.4	501.9	517.2	570.7	687.8	726.1
Pollock	267.3	284.2	307.9	333.4	319.7	311.4
Whiting	383.8	364.7	345.6	313.8	330.8	364.7
New England finfish	308.7	325.8	291.1	340.8	397.3	412.1
Red snapper	499.9	536.0	530.4	511.0	513.8	519.4
Pacific halibut	392.8	460.0	460.0	460.0	460.0	460.0
Salmon:						
Chinook - troll	371.2	381.8	424.2	424.2	424.2	424.2
Chinook - nontroll	553.5	664.2	498.1	516.6	498.1	498.1
Chum	436.8	436.8	742.5	786.1	655.1	655.1
Coho - troll	269.4	330.6	367.4	367.4	367.4	367.4
Coho - nontroll	505.5	439.6	593.4	593.4	549.5	549.5
Pink	392.9	314.4	314.4	314.4	314.4	314.4
Sockeye	511.7	554.4	511.7	213.2	213.2	213.2
Salmon	436.1	455.6	474.9	379.7	363.5	363.5
Tuna:						
Albacore	425.6	425.6	425.6	429.8	432.4	432.4
Skipjack	493.3	493.3	493.3	493.3	493.3	493.3
Bluefin	468.4	468.4	468.4	468.4	468.4	468.4
Yellowfin	425.8	425.8	425.8	425.8	425.8	425.8
Tuna	446.8	446.8	446.8	447.7	448.3	448.3
Edible finfish	411.2	426.9	427.1	377.9	404.5	407.9
Shrimp	381.6	388.2	373.6	344.4	340.3	341.3
Other shellfish:						
Hard clams	381.3	430.9	394.8	436.6	448.2	431.2
Soft clams	471.3	520.5	566.7	480.8	480.4	466.1
Surf clams	535.8	524.6	535.8	533.8	539.9	516.3
Hard blue crabs	347.0	328.3	313.1	311.4	326.6	250.5
King crabs	812.0	812.0	820.5	923.1	1,000.0	1,025.6
American lobsters	204.7	193.8	183.0	205.4	245.0	333.0
Eastern oysters	172.3	197.0	219.6	183.2	189.2	197.8
Sea scallops	482.5	545.3	601.4	617.7	642.7	658.3
Other shellfish	350.4	366.9	372.8	383.3	408.1	423.7
Edible shellfish	365.7	377.3	373.2	364.2	374.9	383.3
Edible fish	387.2	400.8	398.7	370.7	388.9	394.9
Industrial fish	338.2	390.0	399.7	241.9	323.7	323.7
Menhaden	338.2	390.0	399.7	241.9	323.7	323.7
All fish	383.8	400.1	398.8	361.8	384.4	390.0

Note:--Data are preliminary. Monthly prices for species representing about 70 percent of the landed value of all fish and shellfish during recent years have been combined into index groups to indicate movement of exvessel prices.

WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1980

Group, subgroup, and item specification	Point of pricing	Unit	Jan.	Feb.	Mar.	Apr.	May	June
			Dollars					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	1.10	0.55	1.00	0.45	0.40	0.40
Halibut, west., 20-80 lb, dressed, fresh and frozen. . . .	New York	lb	2.60	2.60	2.60	2.60	2.60	2.60
Salmon, king, large and medium, dressed, fresh and frozen. . . .	New York	lb	1.81	1.81	1.81	1.81	1.25	1.20
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	1.70	2.20	2.63	2.23	1.15	1.15
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	1.75	2.25	2.50	2.40	2.10	1.75
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	1.88	1.63	2.55	1.50	1.50	1.45
Shrimp, large (26-30 count), headless, fresh.	New York	lb	5.40	5.40	5.40	5.40	4.40	4.25
Oysters, shucked, standards . . .	Norfolk	gal	19.00	18.50	18.25	18.25	18.25	18.75
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, Canadian, 1-lb package	Boston	lb	-	.98	-	1.04	1.03	1.00
Flounder, skinless, 1-lb package	Boston	lb	1.58	1.58	1.58	1.58	1.58	1.58
Ocean perch, large, skin on, 1-lb package	Boston	lb	1.50	1.15	1.15	1.15	1.00	1.00
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	5.40	5.30	5.08	4.60	4.45	4.55
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	4.12	4.13	4.12	4.05	4.02	4.05
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.05	1.05	1.05	1.07	1.07	1.05
Fish sticks, cod, precooked, breaded, 1/2-1-lb package. . . .	Selected areas	lb	1.25	1.25	1.28	1.28	1.28	1.28
Fish portions, cod, raw, breaded, 6-lb package.	Selected areas	lb	1.24	1.24	1.24	1.24	1.24	1.25
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16-oz) 48 cans/case	Seattle	case	76.00	76.00	76.00	76.00	76.00	78.00
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case.	Los Angeles	case	37.50	38.50	39.00	40.50	41.50	42.00
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case.	New York	case	32.10	32.10	32.10	34.10	34.10	34.10

(Continued)

PRICES

WHOLESALE

AVERAGE WHOLESALE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1980 - Continued

Group, subgroup, and item specification	Point of pricing	Unit	July	Aug.	Sept.	Oct.	Nov.	Dec.
			Dollars					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb	0.68	0.52	0.52	0.50	0.80	1.03
Halibut, western, 20-80 lb, dressed, fresh or frozen	New York	lb	2.60	2.60	2.60	1.95	2.13	2.10
Salmon, king, large and medium, dressed, fresh or frozen	New York	lb	1.35	1.50	1.50	1.50	1.50	1.35
Whitefish, Lake Superior, drawn, fresh.	Chicago	lb	1.30	1.18	2.13	1.38	1.43	1.70
Yellow pike, Lakes Michigan and Huron, round, fresh.	New York	lb	2.00	2.10	2.65	2.00	2.25	2.25
PROCESSED, FRESH (fish and shellfish):								
Fillets, haddock, small, skin on, 20-lb tins	Boston	lb	1.50	1.55	1.25	1.63	1.60	1.58
Shrimp, large (26-30 count), headless, fresh.	New York	lb	4.25	4.75	4.50	4.25	4.50	4.45
Oysters, shucked, standards . . .	Norfolk	gal	19.00	19.00	19.00	20.00	20.00	20.00
PROCESSED, FROZEN (fish and shellfish):								
Fillets: Cod, skinless, 1-lb package	Boston	lb	.99	.99	.99	.99	.99	1.05
Flounder, skinless, 1-lb package	Boston	lb	1.58	1.58	1.58	1.58	1.58	1.58
Ocean perch, large, skin on, 1-lb package.	Boston	lb	1.00	1.00	1.00	1.00	1.00	1.02
Shrimp, large (26-30 count), brown, 5-lb package.	Chicago	lb	4.65	4.68	4.38	4.28	4.15	4.18
Shrimp, raw, breaded (15-20 count), 4-lb package	Selected areas	lb	4.04	3.90	3.90	3.80	3.76	3.64
Fish blocks, cod, raw, 13-1/2 - 16-lb carton	Selected areas	lb	1.05	1.05	1.05	1.05	1.07	1.12
Fish sticks, cod, precooked, breaded, 1/2 - 1-lb package. . .	Selected areas	lb	1.23	1.23	1.23	1.23	1.23	1.25
Fish portions, cod, raw, breaded, 6-lb package	Selected areas	lb	1.25	1.24	1.24	1.24	1.27	1.31
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16-oz) 48 cans/case	Seattle	case	78.00	78.00	78.00	80.25	80.25	80.25
Tuna, light meat, chunk, No. 1/2 (6-1/2-oz) 48 cans/case.	Los Angeles	case	42.00	42.50	43.00	43.25	44.25	44.25
Sardines, Maine, keyless, oil, 1/4 drawn (3-3/4-oz) 100 cans/case .	New York	case	36.00	36.00	34.00	34.00	34.00	36.00

Note:--These are average prices for one day (Monday, Tuesday, or Wednesday) during the week in which the 13th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Fishery Market News Reports should be referred to for actual prices. (See page 116 for information on these reports, and how they can be obtained.)

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

PRICES

WHOLESALE

WHOLESALE PRICE INDEXES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1980

Group	Jan.	Feb.	Mar.	Apr.	May	June
	Index (1967=100)					
All fish and shellfish (fresh, frozen, and canned)	397.7	394.1	400.7	386.1	355.2	354.9
Fresh and frozen fishery products	436.4	429.9	437.6	415.4	373.3	371.7
Drawn, dressed, or whole finfish	493.7	481.6	505.7	478.4	388.9	382.2
Processed, fresh (fish and shellfish)	422.5	415.0	438.3	411.3	349.0	339.4
Processed, frozen (fish and shellfish)	411.5	408.7	401.1	383.5	376.8	381.0
Canned fishery products	309.7	316.1	319.3	330.7	337.2	341.5

Group	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Index (1967=100)					
All fish and shellfish (fresh, frozen, and canned)	364.3	370.3	367.5	350.0	357.8	355.4
Fresh and frozen fishery products	383.3	390.2	386.2	362.5	371.0	367.5
Drawn, dressed, or whole finfish	414.3	425.1	441.0	378.3	404.0	396.5
Processed, fresh (fish and shellfish)	341.2	373.6	350.3	346.4	361.3	357.8
Processed, frozen (fish and shellfish)	384.1	380.1	370.1	263.3	359.2	358.2
Canned fishery products	343.1	346.3	347.8	342.8	357.1	358.8

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

ALL THE NEWS ABOUT FISHERIES

PRICES

RETAIL

RETAIL PRICES OF FISHERY PRODUCTS, BY MONTHS, 1980

ITEM	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	Dollars per pound											
FRESH												
Cod fillets	2.91	2.38	2.31	2.39	2.24	2.17	2.43	2.31	2.34	2.29	2.45	2.57
Flounder fillets	–	–	2.69	2.49	2.91	3.07	2.24	2.49	2.38	2.52	2.81	2.65
Haddock fillets	–	3.69	2.98	2.53	2.28	2.39	2.66	2.84	2.35	2.75	2.87	3.20
Ocean perch fillets	2.75	2.58	2.58	2.53	2.61	2.19	2.53	2.25	2.22	2.38	2.20	2.32
Sole fillets	3.15	3.53	3.01	3.69	3.21	2.92	3.07	3.35	3.00	3.09	3.19	3.16
RAW FROZEN												
Cod fillets, 1 lb. pkg	2.19	2.03	1.99	1.97	1.98	1.90	1.98	2.06	2.04	2.03	2.04	2.10
Flounder fillets, 1 lb. pkg	2.78	2.81	2.28	2.86	2.76	2.87	2.87	2.83	2.90	2.89	2.84	2.90
Haddock fillets, 1 lb. pkg	2.54	2.63	2.59	2.60	2.52	2.58	2.54	2.66	2.61	2.65	2.69	2.71
Halibut steaks	5.91	5.91	5.79	5.85	5.53	5.50	5.78	5.08	5.31	4.46	4.67	4.63
Ocean perch fillets, 1 lb. pkg.	2.14	2.19	2.20	2.13	2.10	2.13	2.16	2.17	2.19	2.17	2.12	2.16
Turbot fillets, 1 lb. pkg	1.70	1.69	1.74	1.75	1.81	1.81	1.80	1.75	1.76	1.75	1.82	1.88
King crab meat, 6 oz. pkg	14.57	14.53	14.32	14.65	13.69	13.85	14.43	14.51	15.24	14.90	14.60	14.92
BREADED, COCKED												
Fish sticks, breaded, 14 oz. pkg	1.92	1.89	1.99	2.00	1.97	1.96	2.01	2.13	2.05	2.05	2.05	2.11
Fish portions, breaded, 14 oz. pkg	2.02	1.95	2.18	2.02	1.99	2.05	2.01	2.12	2.04	2.06	2.14	2.20
Shrimp breaded, fantail	4.99	5.23	5.13	4.95	5.06	5.10	4.68	4.92	4.77	4.69	4.67	4.63
CANNED												
Tuna, solid, white, in water, 7 oz. can	2.88	2.91	2.88	2.94	3.02	3.04	3.09	3.16	3.22	3.25	3.30	3.30
Tuna, chunk, light, in oil, 6 1/2 oz. can	2.11	2.08	2.19	2.14	2.18	2.26	2.34	2.39	2.47	2.45	2.37	2.49
Salmon, pink, 1 lb. can	2.20	2.19	2.21	2.23	2.28	2.29	2.27	2.34	2.32	2.36	2.33	2.34
Salmon, red, 1 lb. can	3.15	3.20	3.23	3.23	3.26	3.24	3.23	3.24	3.20	3.23	3.21	3.29
Sardines, Maine, single layer, soybean oil, 3 3/4 oz. can	2.11	2.07	2.12	2.13	2.15	2.14	2.22	2.22	2.21	2.25	2.22	2.33
Sardines, Norway, single layer, soybean oil, 3 3/4 oz. can	3.16	3.08	3.17	3.31	3.42	3.55	3.66	3.65	3.76	3.78	3.83	3.94
Shrimp, small, 4 1/2 oz. can	6.76	6.83	6.76	7.19	7.37	7.16	7.41	7.27	7.47	7.56	7.59	7.31

INDEX OF RETAIL PRICES, BY MONTHS, 1980
APRIL 1977 = 100

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Fish	222.0	221.3	222.2	137.5	137.1	138.3	139.1	140.7	141.4	140.5	140.2	143.0
Meat	157.0	158.6	156.6	144.3	142.7	140.5	143.5	146.7	151.1	152.5	155.2	154.4
Poultry	130.7	132.7	131.0	122.0	119.7	119.7	126.7	132.7	135.7	133.7	131.0	130.3

Note:--The retail prices and indexes are based on an informal monthly survey of retail prices of fish and other items in 3 retail grocery stores in each of 10 cities. All items in each index are given equal weight. The indexes are not seasonally adjusted.

Source:--Operation Price Watch, National Marine Fisheries Service, Fisheries Development Division, Washington, D.C. 20235,
Phone: (202) 634-7385.

VALUE ADDED

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1979 AND 1980

Year and item	Domestic		Imports (1)		Total margin	Value-added rate (2)	Value added (3) (contribution to the economy as GNP)	
	Sales	Margin	Sales	Margin			Total	Percentage of total
	Million dollars					Percent	Million dollars	Percent
1 9 7 9 (Revised):								
Domestic landings	2,234	-	-	-	-	-	-	-
Industrial fish (4)	141	-	-	-	-	-	-	-
Edible fish (harvesting bill)	2,093	-	-	-	2,093	69.20	1,448	21.49
Exports (unprocessed) (5)	275	-	-	-	-	-	-	-
Total domestic sales	1,818	(1,818)	-	-	-	-	-	-
To be processed	1,382	-	-	-	-	-	-	-
Unprocessed to wholesaler	436	-	-	-	-	-	-	-
Imports		-	2,668	(2,668)	-	-	-	-
To be processed	-	-	678	-	-	-	-	-
To trade dealers	-	-	1,990	-	-	-	-	-
Processing level (6)	2,947	1,565	1,119	442	2,007	63.20	1,268	18.82
Exports (processed) (7)	746	-	-	-	-	-	-	-
Domestic sales	2,201	-	-	-	-	-	-	-
Wholesale level (8)	3,187	550	3,650	540	1,090	64.45	703	10.43
Channels to consumers:								
Retail stores (9)	1,629	363	2,396	535	898	81.80	735	10.91
Public eating places (10)	3,895	2,134	3,469	1,899	4,033	60.90	2,456	36.44
Institutions (11)	264	104	362	143	247	52.40	129	1.91
Consumer expenditures: (12)								
Sales through three channels	5,788	-	6,227	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	5,788	-	6,227	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(32.0%)	-	-	-	-	-	-	-
Total consumer expenditures	(48.2%)	12,015		(51.8%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	6,739	100.00
1980 (Preliminary):								
Domestic landings	2,237	-	-	-	-	-	-	-
Industrial fish (4)	145	-	-	-	-	-	-	-
Edible fish (harvesting bill)	2,092	-	-	-	2,092	70.00	1,464	20.86
Exports (unprocessed) (5)	201	-	-	-	-	-	-	-
Total domestic sales	1,891	(1,891)	-	-	-	-	-	-
To be processed	1,417	-	-	-	-	-	-	-
Unprocessed to wholesaler	474	-	-	-	-	-	-	-
Imports	-	-	2,682	(2,682)	-	-	-	-
To be processed	-	-	741	-	-	-	-	-
To trade dealers	-	-	1,941	-	-	-	-	-
Processing level (6)	3,029	1,612	1,269	527	2,139	63.70	1,363	19.42
Exports (processed) (7)	703	-	-	-	-	-	-	-
Domestic sales	2,326	-	-	-	-	-	-	-
Wholesale level (8)	3,387	587	3,754	544	1,131	65.25	738	10.52
Channels to consumers:								
Retail stores (9)	1,732	387	2,465	551	938	82.60	775	11.04
Public eating places (10)	4,120	2,248	3,551	1,937	4,185	60.80	2,544	36.25
Institutions (11)	280	110	372	147	257	52.30	134	1.91
Consumer expenditures: (12)								
Sales through three channels	6,132	-	6,388	-	-	-	-	-
Landings (or imports) plus margins at five levels minus exports	-	6,132	-	6,388	-	-	-	-
Fisherman's share of a consumer's dollar for fish when exports are included	(30.6%)	-	-	-	-	-	-	-
Total consumer expenditures	(49.0%)	12,520		(51.0%)	-	-	-	-
Total value added (contribution to the economy as GNP)	-	-	-	-	-	-	7,018	100.00

See footnotes on next page.

(Continued)

VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR EDIBLE FISHERY PRODUCTS IN THE UNITED STATES, 1979 AND 1980 - Continued

FOOTNOTES

(1) For imported fishery products, the margin and sales values at different levels are calculated in the same manner as they are done for the domestic production column, except that the markup rate at the processor level is 0.6518 in1979 and 0.7111 in 1980; at the wholesale level the markup rate is 0.1736 in 1979 and 0.1695 in 1980. In 1979 and 1980 the distribution rate is 51 percent at retail stores, 43 percent at eating places, and 6 percent at institutions.

(2) Value-added rate at each level is the weighted average of all fishery products, expressed as a percentage of its corresponding margin.

(3) Multiply each item under the total margin column by its corresponding value under the value-added rate column to get the actual value added as contribution to the economy from all production and distribution levels of the U.S. fishing industry in the food fish sector.

(4) Value of landings of fish for industrial purposes is deducted.

(5) Exports of unprocessed fish are deducted from the value of the landings after being converted to an equivalent value for domestic landings.

(6) Processor's purchase value (or domestic sales at the harvesting level) times the processor's markup rate (weighted average for all fishery products is 1.1320 in 1979 and 1.1378 in 1980) equals the margin at the processor's level.

(7) Exports of processed products are deducted at their export value from this level.

(8) Wholesale purchase value (processors domestic sales and unprocessed products from domestic landings) times the weighted average of markup rates (0.2087 for 1979 and 0.2095 for 1980).

(9) In 1979 and 1980, 39.7 percent of wholesale sales value is distributed to retailers. This value times the weighted average of markup rates (0.2872 in 1979 and 0.2878 in 1980) at the retail level equals the margin at retail.

(10) In 1979 and 1980, 55.3 percent of wholesale sales value is distributed to public eating places. At a markup rate of 1.210 for 1979 and 1.200 for 1980, the margin and sales values at this level are obtained.

(11) A wholesale sales value of 5 percent is distributed to institutions with a markup rate of 0.6530 in 1979 and 0.6520 in 1980; the margin and sales value at this level are then calculated.

(12) Consumer expenditures are the total sales value at retail stores, public eating places, and institutions. This total is also the sum of margins of five marketing levels and the landings value after export value is deducted.

Note:--The procedure for calculating the data in this table is based on two comprehensive reports: Cost Analyses of U.S. Fish Price Margins, 1972-1977, at Different Production and Distribution Levels and Marketing Bill of U.S. Fish-Food Products, both prepared by Erwin S. Penn (202-634-7111) of the Economic Analysis Staff, Office of Policy and Planning, Fx53.

PER CAPITA USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round-weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 67).

Per capita use figures are not comparable with per capita consumption data (see page 89). Per capita consumption figures represent edible (for human use) meat-weight consumption rather than round-weight-consumption. In addition, per capita consumption includes allowances for beginning and ending stocks, defense purchases, and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S. ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1950-80

Year	Total population including armed forces overseas July 1	Total U.S. supply (1)	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	- - - - - - - - - -	Pounds	- - - - - - - - - -
1950.	152.3	6,547	32.2	10.8	43.0
1951.	154.9	6,757	28.6	15.0	43.6
1952.	157.6	7,636	28.1	20.4	48.5
1953.	160.2	7,015	28.0	15.8	43.8
1954.	163.0	7,593	29.2	17.4	46.6
1955.	165.9	7,121	29.0	13.9	42.9
1956.	168.9	7,569	31.2	13.6	44.8
1957.	172.0	7,164	27.9	13.8	41.7
1958.	174.9	7,526	27.1	15.9	43.0
1959.	177.8	8,460	28.8	18.8	47.6
1960.	180.7	8,223	27.3	18.2	45.5
1961.	183.7	9,570	28.2	23.9	52.1
1962.	186.5	10,408	28.7	27.1	55.8
1963.	189.2	11,434	25.6	34.8	60.4
1964.	191.9	12,031	23.7	39.0	62.7
1965.	194.3	10,535	24.6	29.6	54.2
1966.	196.6	12,469	22.2	41.2	63.4
1967.	198.7	13,991	20.4	50.0	70.4
1968.	200.7	17,381	20.7	65.9	86.6
1969.	202.7	11,847	21.4	37.0	58.4
1970.	204.9	11,474	24.0	32.0	56.0
1971.	207.1	11,804	24.2	32.8	57.0
1972.	208.8	13,849	23.0	43.3	66.3
1973.	210.4	10,378	23.1	26.2	49.3
1974.	211.9	9,875	23.4	23.2	46.6
1975.	213.6	10,164	22.8	24.8	47.6
1976	215.2	11,593	25.1	28.8	53.9
1977 (2). . .	216.9	10,579	24.0	24.8	48.8
1978 (2). . .	218.7	11,509	27.6	25.0	52.6
1979 (2). . .	220.6	11,831	28.4	25.2	53.6
1980 (2). . .	222.8	11,357	29.1	21.9	51.0

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round-weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

(2) Preliminary.

Note:--Population estimates do not reflect the results of the 1980 Census count.

PER CAPITA CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically caught and imported fish and shellfish adjusted for beginning and ending inventories, imports, exports, and military purchases, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-80

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - -	Pounds, edible meat	- - - - - - -	
1909 (5)	90.5	4.3	2.7	*4.0	11.0
1910	92.4	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	.7	8.8
1932	124.7	4.3	3.4	.7	8.4
1933	125.4	4.2	3.9	.6	8.7
1934	126.2	4.3	4.2	.7	9.2
1935	127.1	5.1	4.7	.7	10.5
1936	127.9	5.2	*5.8	.7	11.7
1937	128.6	5.6	5.3	.9	11.8
1938	129.6	5.2	4.8	.8	10.8
1939	130.7	5.3	4.7	.7	10.7
1940	132.1	5.7	4.6	.7	11.0
1941	132.1	6.3	4.2	.7	11.2
1942	131.4	5.2	2.9	.6	8.7
1943	128.0	5.5	1.8	.6	7.9
1944	127.2	5.5	2.6	.6	8.7
1945	128.1	6.6	2.6	.7	9.9
1946	138.9	5.9	4.2	.7	10.8
1947	143.1	5.8	3.8	.7	10.3
1948	145.7	6.0	4.4	.7	11.1
1949	148.2	5.8	4.5	.6	10.9
1950	150.8	6.3	4.9	.6	11.8
1951	151.6	6.3	4.3	.6	11.2
1952	153.9	6.2	4.3	.7	11.2
1953	156.6	6.4	4.3	.7	11.4
1954	159.7	6.2	4.3	.7	11.2
1955	163.0	5.9	3.9	.7	10.5
1956	166.1	5.7	4.0	.7	10.4
1957	169.1	5.5	4.0	.7	10.2
1958	172.2	5.7	4.3	.6	10.6
1959	175.3	5.9	4.4	.6	10.9

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-80 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - - Pounds, edible meat - - - - - - -			
1960.	178.1	5.7	4.0	0.6	10.3
1961.	181.1	5.9	4.3	.5	10.7
1962.	183.7	5.8	4.3	.5	10.6
1963.	186.5	5.8	4.4	.5	10.7
1964.	189.1	5.9	4.1	.5	10.5
1965.	191.6	6.0	4.3	.5	10.8
1966.	193.4	6.1	4.3	.5	10.9
1967.	195.3	5.8	4.3	.5	10.6
1968.	197.1	6.2	4.3	.5	11.0
1969.	199.1	6.6	4.2	.4	11.2
1970.	201.7	6.9	4.5	.4	11.8
1971.	204.3	6.7	4.3	.5	11.5
1972.	206.5	7.2	4.9	.4	12.5
1973.	208.1	7.5	5.0	.4	12.9
1974.	209.7	7.0	4.8	.4	12.2
1975.	211.4	7.6	4.3	.4	12.3
1976	213.0	*8.3	4.3	.5	13.1
1977 (6).	214.7	7.9	4.6	.4	12.9
1978 (6).	216.6	8.2	5.1	.4	*13.7
1979 (6).	218.5	8.0	4.9	.3	13.2
1980 (6).	220.7	8.1	4.6	.3	13.0

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date. These population estimates do not reflect the results of the 1980 Census count.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1910 to 1920 is estimated. Beginning in 1921 it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimate based on the 1908 census and foreign trade data.

(6) Preliminary.

*Record.

Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish which since 1970 is estimated to be between 3 and 4 pounds (edible meat) per person annually.

PER CAPITA CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1960-80

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
			Pounds			
1960. . . .	0.7	0.4	2.0	0.4	0.5	4.0
1961. . . .	.8	.5	2.1	.4	.5	4.3
1962. . . .	.9	.3	2.1	.4	.6	4.3
1963. . . .	.9	.4	2.0	.5	.6	4.4
1964. . . .	.7	.3	2.0	.5	.6	4.1
1965. . . .	.9	.3	2.3	.5	.3	4.3
1966. . . .	.8	.4	2.3	.4	.4	4.3
1967. . . .	.7	.4	2.4	.5	.3	4.3
1968. . . .	.7	.4	2.4	.5	.3	4.3
1969. . . .	.7	.4	2.4	.5	.2	4.2
1970. . . .	.7	.4	2.5	.5	.4	4.5
1971. . . .	.7	.4	2.4	.5	.3	4.3
1972. . . .	.7	.4	2.9	.5	.4	4.9
1973. . . .	.4	.5	3.1	.5	.5	5.0
1974. . . .	.3	.4	3.1	.6	.4	4.8
1975. . . .	.4	.2	2.9	.4	.4	4.3
1976. . . .	.4	.3	2.9	.4	.3	4.3
1977 (1). .	.5	.3	2.9	.6	.3	4.6
1978 (1). .	.6	.3	3.3	.5	.4	5.1
1979 (1). .	.5	.3	3.3	.5	.3	4.9
1980 (1). .	.5	.3	3.0	.5	.3	4.6

(1) Preliminary.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1960-80

Year	Fillets and steaks (1)	Sticks and portions	Shrimp, all preparations
		Pounds (2)	
1960.	1.64	0.63	1.08
1961.	1.67	.71	1.01
1962.	1.77	.82	1.02
1963.	1.60	.92	1.17
1964.	1.62	.98	1.16
1965.	1.68	1.12	1.24
1966.	1.74	1.14	1.21
1967.	1.64	1.21	1.29
1968.	1.86	1.32	1.37
1969.	2.01	1.63	1.31
1970.	2.17	1.73	1.44
1971.	2.04	1.63	1.39
1972.	2.29	1.79	1.44
1973.	2.54	2.00	1.36
1974.	2.14	1.84	1.51
1975.	2.42	1.80	1.41
1976	2.55	2.07	1.50
1977 (3).	2.56	2.05	*1.59
1978 (3).	*2.72	2.19	1.51
1979 (3).	2.72	*2.20	1.34
1980 (3).	2.54	2.05	1.46

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.

(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

(3) Preliminary.

*Record.

PER CAPITA CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	18.2	40.1
United States	15.9	35.1
Latin America:		
Argentina	4.1	9.0
Bolivia	1.8	4.0
Brazil	6.9	15.2
Chile	15.8	34.8
Colombia	3.4	7.5
Costa Rica	4.5	9.9
Cuba	20.9	46.1
Dominican Republic	6.3	13.9
Ecuador	10.4	22.9
El Salvador	2.2	4.8
Guatemala	.7	1.5
Guyana	20.9	46.1
Haiti	1.6	3.5
Honduras	1.1	2.4
Jamaica	24.0	52.9
Mexico	4.9	10.8
Nicaragua	4.3	9.5
Panama	9.7	21.4
Paraguay	1.0	2.2
Peru	17.2	37.9
Surinam	22.0	48.5
Trinidad and Tobago	10.1	22.3
Uruguay	5.0	11.0
Venezuela	10.2	22.5
Europe:		
Albania	1.8	4.0
Austria	7.8	17.2
Belgium and Luxembourg	18.5	40.8
Bulgaria	12.0	26.5
Czechoslovakia	7.9	17.4
Denmark	35.1	77.4
Fed. Republic of Germany	10.7	23.6
Finland	26.1	57.5
France	22.2	48.9
German Democratic Rep.	18.6	41.0
Greece	15.8	34.8
Hungary	5.0	11.0
Iceland	66.8	147.3
Ireland	14.2	31.3
Italy	12.4	27.3
Malta	13.2	29.1
Netherlands	13.2	29.1
Norway	47.0	103.6
Europe - Continued:		
Poland	20.5	45.2
Portugal	38.6	85.1
Romania	5.7	12.6
Spain	35.3	77.8
Sweden	32.5	71.6
Switzerland	10.4	22.9
United Kingdom	17.3	38.1
Yugoslavia	2.9	6.4
USSR	28.7	63.3
Near East:		
Afghanistan	.1	.2
Cyprus	6.5	14.3
Egypt	4.2	9.3
Iran	.5	1.1
Iraq	2.8	6.2
Israel	11.1	24.5
Jordan	2.1	4.6
Lebanon	3.3	7.3
Libya	7.3	16.1
Saudi Arabia	5.2	11.5
Sudan	1.4	3.1
Syria	1.4	3.1
Turkey	4.4	9.7
Yemen Arab Republic	3.8	8.4
Yemen (Aden)	12.4	27.3
Far East:		
Bangladesh	10.4	22.9
Burma	13.0	28.7
Cambodia	10.0	22.0
China, mainland	5.9	13.0
Hong Kong	50.5	111.3
India	3.2	7.0
Indonesia	10.7	23.6
Japan	67.4	148.6
Laos	6.2	13.7
Malaysia	34.7	76.5
Mongolia	.4	.9
Nepal	.2	.4
North Korea	35.6	78.5
Pakistan	1.6	3.5
Philippines	33.1	73.0
Republic of Korea	47.3	104.3
Singapore	42.5	93.7
Sri Lanka (Ceylon)	11.3	24.9
Thailand	22.9	50.5
Vietnam	21.8	48.1

See note at end of table.

(Continued)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1975-77 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria	2.2	4.8
Angola	6.7	14.8
Benin	11.4	25.1
Botswana	1.9	4.2
Burundi	4.6	10.1
Cameroon	10.4	22.9
Central African Republic	5.8	12.8
Chad	14.7	32.4
Congo (Brazzaville)	24.9	54.9
Ethiopia	.6	1.3
Gabon	20.3	44.8
Gambia	13.6	30.0
Ghana	27.6	60.8
Guinea	4.7	10.4
Ivory Coast	20.7	45.6
Kenya	2.6	5.7
Liberia	20.8	45.9
Madagascar	6.4	14.1
Malawi	12.7	28.0
Mali	10.6	23.4
Mauritania	21.0	46.3
Mauritius	15.7	34.6
Morocco	4.4	9.7
Mozambique	1.8	4.0
Niger	.9	2.0
Nigeria	10.6	23.4
Republic of South Africa	7.0	15.4
Rhodesia	2.8	6.2
Rwanda	.3	.7
Senegal	40.5	89.3
Sierra Leone	26.8	59.1
Somalia	1.2	2.6
Tanzania	15.4	33.9
Togo	11.5	25.4
Tunisia	5.5	12.1
Uganda	14.8	32.6
Upper Volta	1.2	2.6
Zaire	6.2	13.7
Zambia	12.3	27.1
Oceania:		
Australia	14.6	32.2
New Zealand	16.9	37.3
Papua New Guinea	16.5	36.4
World	12.3	27.1

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO), Rome.

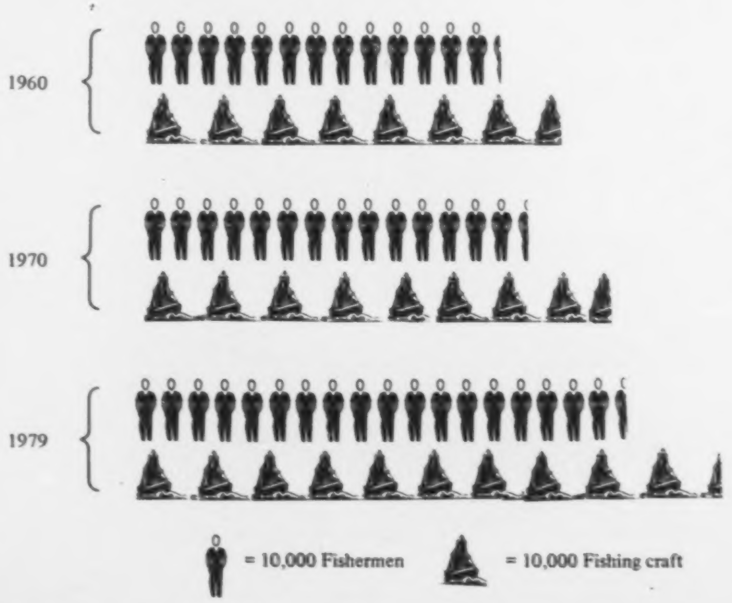
EMPLOYMENT, CRAFT, AND PLANTS

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1955-79

Item	1955	1960	1965	1970	1975	1979(1)
	Number					
Persons employed:						
Fishermen	144,359	130,431	128,565	140,538	168,013	184,000
Processing and wholesaling (2)	97,825	93,625	86,864	86,813	92,310	93,100
Total	242,184	224,056	215,429	227,351	260,323	277,100
Craft used:						
Vessels (3)	11,796	12,018	12,311	13,591	16,211	18,400
Motor boats	58,218	56,889	63,828	71,570	85,290	83,900
Other boats	1,952	8,150	3,393	2,000	1,693	1,400
Total	71,966	77,057	79,532	87,161	103,194	103,700
Shore establishments:						
New England States	532	568	532	537	509	480
Mid-Atlantic States	1,230	1,133	1,109	832	747	744
South Atlantic States	449	454	443	432	520	692
Gulf Coast States	642	743	847	817	723	846
Pacific States	421	381	420	402	366	357
Alaska	179	134	137	108	221	240
Inland States	671	772	673	564	512	254
Other (4)	-	22	24	43	8	8
Total	4,124	4,207	4,185	3,735	3,606	3,621

(1) Estimated for fishermen and craft.
(2) Average for season.
(3) Craft 5 net tons and over as documented by U.S. Coast Guard.
(4) Data for 1955 not available. Data for 1960 and 1965 include Hawaii only. Data for other years include American Samoa, Hawaii, and Puerto Rico.

NUMBER OF FISHERMEN AND FISHING CRAFT, 1960, 1970, AND 1979



PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1979

State and area	Processing			Wholesale			Total		
	Plants	Employment average		Plants	Employment average		Plants	Employment average	
		Season	Year		Season	Year		Season	Year
	-Number-								
New England:									
Maine	94	3,984	2,688	122	349	286	216	4,333	2,974
New Hampshire	14	490	452	-	-	-	14	490	452
Massachusetts	114	5,455	4,569	95	997	864	209	6,452	5,433
Rhode Island	18	461	332	16	84	70	34	545	402
Connecticut	3	17	13	4	26	24	7	43	37
Total	243	10,407	8,054	237	1,456	1,244	480	11,863	9,298
Mid-Atlantic:									
New York	40	656	606	201	1,968	1,874	241	2,624	2,480
New Jersey	35	1,426	1,183	64	286	276	99	1,712	1,459
Pennsylvania	15	825	707	20	247	246	35	1,072	953
Delaware	4	593	490	9	27	25	13	620	515
District of Columbia	-	-	-	6	86	86	6	86	86
Maryland	88	3,354	2,499	80	567	429	168	3,921	2,928
Virginia	124	5,105	4,017	58	472	422	182	5,577	4,439
Total	306	11,959	9,502	438	3,653	3,358	744	15,612	12,860
South Atlantic:									
North Carolina	100	2,281	1,587	278	812	578	378	3,093	2,165
South Carolina	20	640	413	110	494	295	130	1,134	708
Georgia	12	1,551	1,264	45	427	242	57	1,978	1,506
Florida East Coast	60	1,268	1,054	67	532	510	127	1,800	1,564
Total	192	5,740	4,318	500	2,265	1,625	692	8,005	5,943
Gulf:									
Florida West Coast	180	5,083	4,300	147	472	395	327	5,555	4,695
Alabama	54	1,780	1,281	19	146	91	73	1,926	1,372
Mississippi	38	1,605	1,153	16	131	84	54	1,736	1,237
Louisiana	127	4,266	2,979	115	662	515	242	4,928	3,494
Texas	56	2,047	1,504	94	1,169	800	150	3,216	2,304
Total	455	14,781	11,217	391	2,580	1,885	846	17,361	13,102
Pacific:									
Washington	86	2,686	1,746	71	716	468	157	3,402	2,214
Oregon	46	3,013	2,133	23	121	81	69	3,134	2,214
California	70	10,658	8,539	61	710	654	131	11,368	9,193
Total	202	16,357	12,418	155	1,547	1,203	357	17,904	13,621
Alaska (1)	225	10,000	6,000	(2)	(2)	(2)	225	10,000	6,000
Inland Fisheries: (3)									
Arkansas, Kansas, Missouri, and Oklahoma	5	163	146	20	206	195	25	369	341
Idaho, Nevada, North Dakota, South Dakota, and Colorado	3	21	19	7	30	27	10	51	46
Illinois	16	324	308	32	386	370	48	710	678
Indiana	-	-	-	10	81	72	10	81	72
Iowa and Nebraska	7	161	141	13	122	113	20	283	254
Michigan	15	117	95	32	305	291	47	422	386
Minnesota	9	325	148	9	24	19	18	349	167
Ohio	13	450	377	18	107	91	31	557	468
Wisconsin	24	231	204	21	178	169	45	409	373
Total	92	1,792	1,438	162	1,439	1,347	254	3,231	2,785
Hawaii, American Samoa, and Puerto Rico	8	9,078	8,056	(2)	(2)	(2)	8	9,078	8,056
Grand total	1,723	80,114	61,003	1,883	12,940	10,662	3,606	93,054	71,665

(1) Data estimated. (2) Data on wholesale establishments are not available. (3) A partial survey was made in some inland States.

VESSELS CONSTRUCTED IN 1978 FOR THE UNITED STATES AND PUERTO RICO FISHING FLEETS

Gross tonnage	By tonnage groups									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
0 - 9	32	-	26	8	31	103	1	-	-	201
10 - 19	33	9	42	15	63	346	-	2	-	510
20 - 29	15	3	4	25	83	74	1	1	-	206
30 - 39	3	3	-	12	30	40	-	-	-	88
40 - 49	4	3	-	11	32	28	-	1	1	80
50 - 59	2	-	-	5	28	12	-	-	-	47
60 - 69	6	2	-	2	13	11	-	-	-	34
70 - 79	4	-	-	7	9	12	-	-	-	32
80 - 89	-	-	-	7	27	10	-	-	-	44
90 - 99	4	-	-	10	42	4	-	-	-	60
100 - 109	-	1	-	18	123	-	-	-	-	142
110 - 119	4	3	-	5	43	3	-	-	-	58
120 - 129	1	1	-	6	22	8	-	-	-	38
130 - 139	-	-	1	1	12	2	-	-	-	16
140 - 149	5	-	1	2	10	3	-	-	-	21
150 - 159	1	1	-	1	4	2	-	-	-	9
160 - 169	3	2	5	-	3	2	-	-	-	15
170 - 179	3	2	1	1	2	3	-	-	-	12
180 - 189	-	-	-	-	6	9	-	-	-	15
190 - 199	5	-	-	-	2	27	-	-	-	34
460 - 469	-	-	-	-	1	-	-	-	-	1
490 - 499	-	-	-	-	-	1	-	-	-	1
530 - 539	-	-	-	-	1	-	-	-	-	1
900 - 909	-	-	-	-	-	1	-	-	-	1
990 - 999	-	-	-	-	-	2	-	-	-	2
1000 - 1009	-	-	-	-	-	1	-	-	-	1
1160 - 1169	-	-	-	-	-	1	-	-	-	1
Total vessels	125	30	80	136	587	705	2	4	1	1,670

Length in feet	By length distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
20 - 29	25	1	8	7	19	261	1	-	-	322
30 - 39	51	9	44	27	88	255	-	1	-	475
40 - 49	9	6	20	33	123	83	1	2	1	278
50 - 59	6	3	-	11	52	28	-	1	-	101
60 - 69	16	4	1	41	230	25	-	-	-	317
70 - 79	9	5	1	15	60	10	-	-	-	100
80 - 89	8	2	6	2	12	18	-	-	-	48
90 - 99	1	-	-	-	-	7	-	-	-	8
100 - 109	-	-	-	-	-	4	-	-	-	4
110 - 119	-	-	-	-	-	6	-	-	-	6
120 - 129	-	-	-	-	-	1	-	-	-	1
130 - 139	-	-	-	-	-	2	-	-	-	2
150 - 159	-	-	-	-	-	1	-	-	-	1
160 - 169	-	-	-	-	3	-	-	-	-	3
190 - 199	-	-	-	-	-	3	-	-	-	3
200 - 209	-	-	-	-	-	1	-	-	-	1
Total vessels	125	30	80	136	587	705	2	4	1	1,670

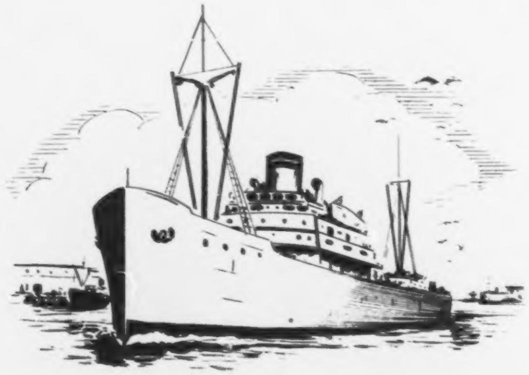
See note at end of table.

(Continued on next page)

VESSELS CONSTRUCTED IN 1978 FOR THE UNITED STATES
AND PUERTO RICO FISHING FLEETS - Continued

Horse power	By horsepower distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number									
0 - 99	1	-	2	3	7	28	1	-	-	42
100 - 199	36	2	13	18	99	133	-	1	-	302
200 - 299	32	8	37	28	71	245	1	1	1	424
300 - 399	30	6	15	68	311	171	-	2	-	603
400 - 499	8	4	3	2	42	20	-	-	-	79
500 - 599	6	1	3	9	32	25	-	-	-	76
600 - 699	3	7	-	1	14	31	-	-	-	56
700 - 799	2	1	7	5	7	14	-	-	-	36
800 - 899	4	-	-	-	-	15	-	-	-	19
900 - 999	2	-	-	1	-	-	-	-	-	3
1000 - 1099	-	1	-	-	-	4	-	-	-	5
1100 - 1199	1	-	-	-	1	9	-	-	-	11
1200 - 1299	-	-	-	1	-	2	-	-	-	3
1300 - 1399	-	-	-	-	-	1	-	-	-	1
1800 - 1899	-	-	-	-	2	1	-	-	-	3
1900 - 1999	-	-	-	-	-	1	-	-	-	1
2200 - 2299	-	-	-	-	-	1	-	-	-	1
2400 - 2499	-	-	-	-	1	-	-	-	-	1
3600 - 3699	-	-	-	-	-	4	-	-	-	4
Total vessels	125	30	80	136	587	705	2	4	1	1,670

Note:--The above data represent the number of vessels documented by the U.S. Coast Guard as being constructed in 1978 for commercial fishing. It is possible that not all of the above vessels actually engaged in fishing. Data on commercial fishing vessels that were redocumented or that received first documentation are not readily available.



PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1980

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants, exclusive of duplication
	Number			
New England:				
Maine	16	7	24	46
Massachusetts	1	3	60	64
New Hampshire	-	-	1	1
Rhode Island	-	-	1	1
Total	17	10	86	112
Mid-Atlantic:				
New York	4	2	16	21
New Jersey	11	4	1	16
Pennsylvania	3	-	4	7
Delaware	2	-	-	2
Maryland	-	2	-	2
Virginia	3	6	4	12
Total	23	14	25	60
South Atlantic and Gulf:				
North Carolina	3	11	31	42
South Carolina	2	1	5	8
Georgia	-	2	-	2
Florida	1	3	20	24
Alabama	-	1	-	1
Mississippi	5	3	-	8
Louisiana	10	18	-	27
Total	21	39	56	112
Pacific:				
Washington	20	11	20	48
Oregon	7	3	19	28
California	12	12	26	42
Total	39	26	65	118
Alaska	70	3	-	73
Inland States:				
Illinois	-	-	11	11
Iowa	-	1	3	4
Kansas	1	-	-	1
Michigan	2	-	9	11
Minnesota	-	1	5	5
Ohio	1	-	6	7
Nebraska	1	-	-	1
Wisconsin	2	3	15	19
Total	7	5	49	59
Hawaii	1	1	-	1
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand Total	185	104	281	542

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR 1980

Region	Edible fishery products							
	Establishments (1)			Amount inspected				
	SIFE (2)	PUFI (3)	MP (4)	Grade A (5)	PUFI (5)	No mark (6)	Lot (7)	Total
	- - - Number - - -			- - - - - - - - Thousand pounds - - - - - - -				
Northeast.	6	27	6	99,368	204,107	24,703	39,202	367,380
Southeast.	1	16	12	6,447	62,012	7,891	23,646	99,996
West	4	14	5	8,390	155,961	6,439	45,329	216,119
Total, 1980. . . .	11	57	23	114,205	422,080	39,033	108,177	683,495
Total, 1979. . . .	10	64	25	139,518	345,408	31,436	79,464	595,826

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.
(2) Fish processing establishments approved for sanitation under the Sanitarily Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.
(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.
(4) Plants under USDC inspection for military purchase (MP) products only.
(5) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A."
(6) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.
(7) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Source:--NMFS, Seafood Research, Inspection, and Consumer Services Division.

FISHERY COOPERATIVES IN THE UNITED STATES, PUERTO RICO, AND VIRGIN ISLANDS, 1980

Region and State or area	Total	Members	Fishing craft	Functions performed by cooperatives		
				Marketing and purchasing	Marketing exclusively	Other
	Number					
New England and Middle Atlantic:						
Maine.	16	972	650	14	-	2
Massachusetts.	6	1,074	286	5	-	1
Rhode Island	2	221	138	1	1	-
Connecticut.	1	125	40	-	-	1
New Jersey	3	70	51	3	-	-
Total	28	2,462	1,165	23	1	4
South Atlantic and Gulf:						
Florida.	4	137	135	-	3	1
Georgia.	1	22	33	1	-	-
Mississippi.	2	45	1	-	1	1
South Carolina	2	41	23	1	1	-
Texas.	2	87	149	2	-	-
Total	11	332	341	4	5	2
Great Lakes and inland:						
Michigan	1	125	90	1	-	-
Minnesota.	1	200	100	1	-	-
Total	2	325	190	2	-	-
Pacific Coast:						
Alaska	23	2,845	2,237	6	3	14
California	18	2,989	2,412	-	7	11
Oregon	5	1,220	1,031	2	2	1
Washington	9	1,962	1,931	1	4	4
Total	55	9,016	7,611	9	16	30
Puerto Rico.	14	368	181	14	-	-
Virgin Islands	2	80	63	2	-	-
Grand total	112	12,583	9,551	54	22	36

Note:--These cooperatives will be listed in List of Fishery Cooperatives in the United States, 1980-81. This publication will become available from NMFS, Fisheries Development Division (F/UD1), Washington, D.C. 20235. These cooperatives meet at least one of the following two requirements: 1. Each member of the Association has one vote irrespective of the amount of stock or membership capital he may own therein; or 2. The association's dividends on stock or membership capital does not exceed 8 percent per year and the association shall not deal in the products of nonmembers in an amount greater in value than is handled for members.

Source:--NMFS, Fisheries Development Division (F/UD1)

NORTHSTAR 7000

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Your choice of Northstar 7000 components makes Loran-C navigation available anywhere on board

The Northstar 7000 is the result of three years of development by the Micro-Pros™ at Digital Marine, and is the successor to the standards of excellence set by the award-winning Northstar 6000. Just press the ON button and the Northstar 7000 navigator goes to work. First it identifies itself and your boat, then goes through self-testing; all the while telling you what it's doing and how things are, from its memory to the receiver module right up to the antenna. Next, your position is displayed, automatically.

Now you're set to do some serious navigating, and you choose the language: *Loran-C TD's, Latitude/Longitude, or a Phantom-Loran-A™ conversion.* Enter one route or up to twenty (you have a minimum of 60 waypoints to use), and the '7000' will guide you along.

And while the '7000' is navigating it will tell you information on *time to go, true speed over the bottom, distance to go, cross track error, estimated time of arrival and more.* All in your kind of language: nautical miles, statute miles or kilometers. The '7000' is also programmed with over 200 plain-english messages that provide you with navigating data.

Comprised of components with 'full-control' weatherproof remotes, the Northstar 7000 features many electronic advances: like *automatic notch filters* that self-adjust, and the *ECD (Envelope to Cycle Discrepancy) monitor* that analyzes and corrects signal distortion. All of which makes the '7000' most accurate and reliable.

When you need accurate navigation, look to the Loran-C navigator that speaks your language, look to the Northstar 7000.

The Micro-Pros™ make the Loran-C system work.

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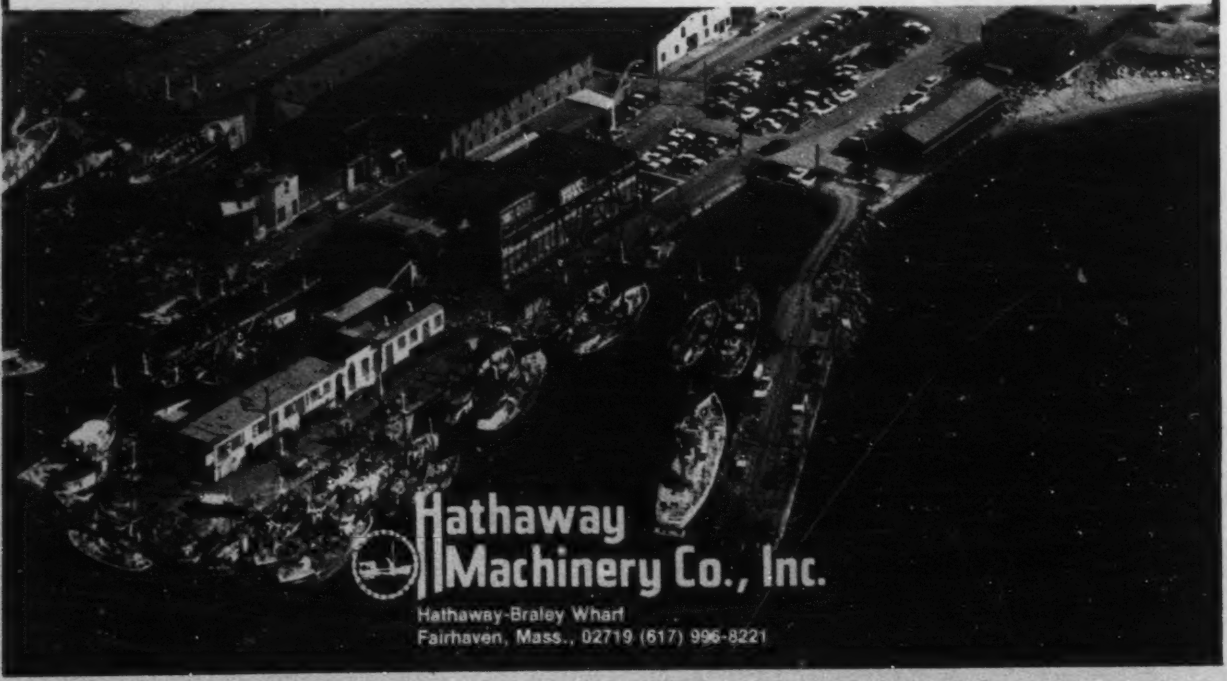

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